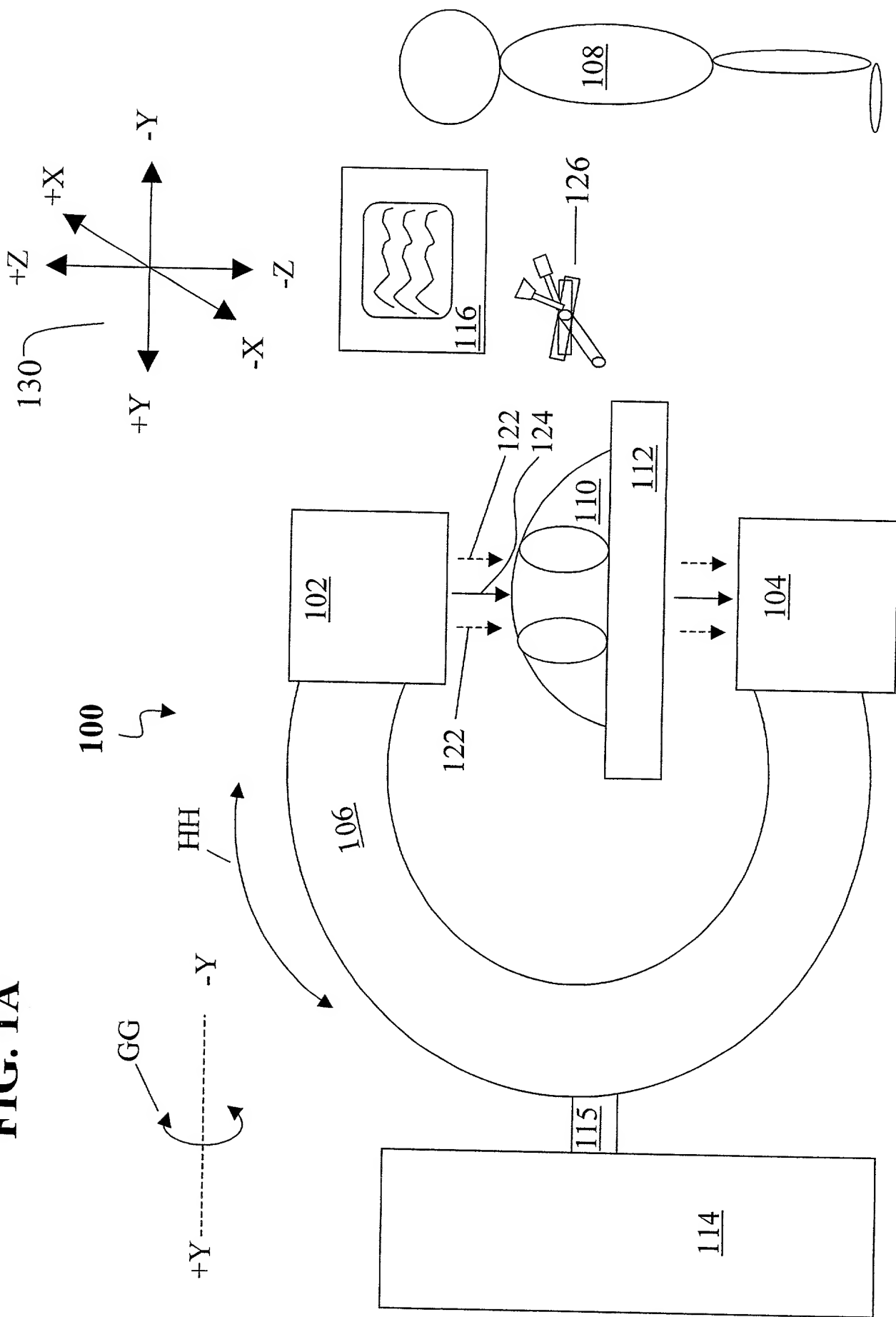
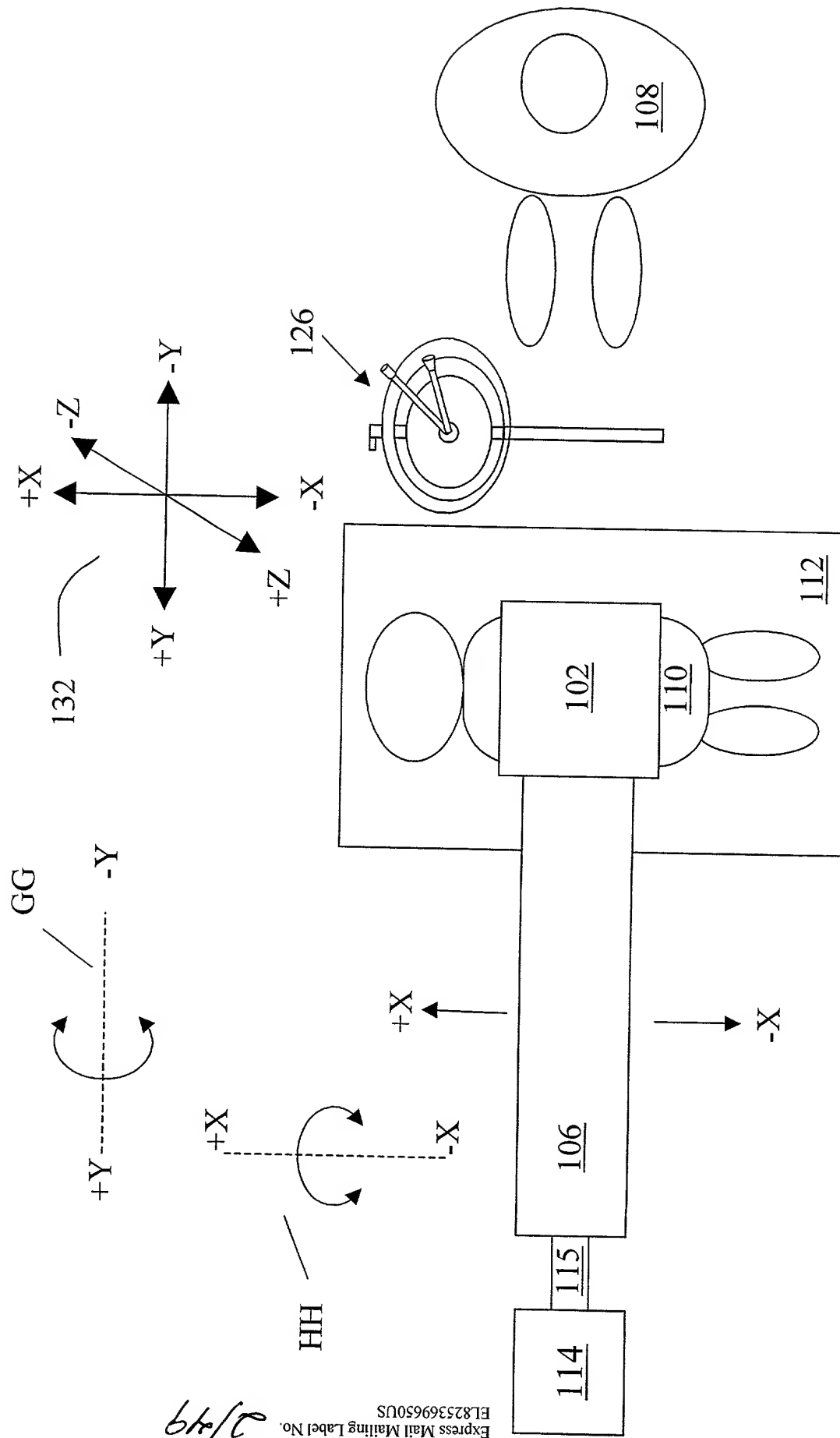


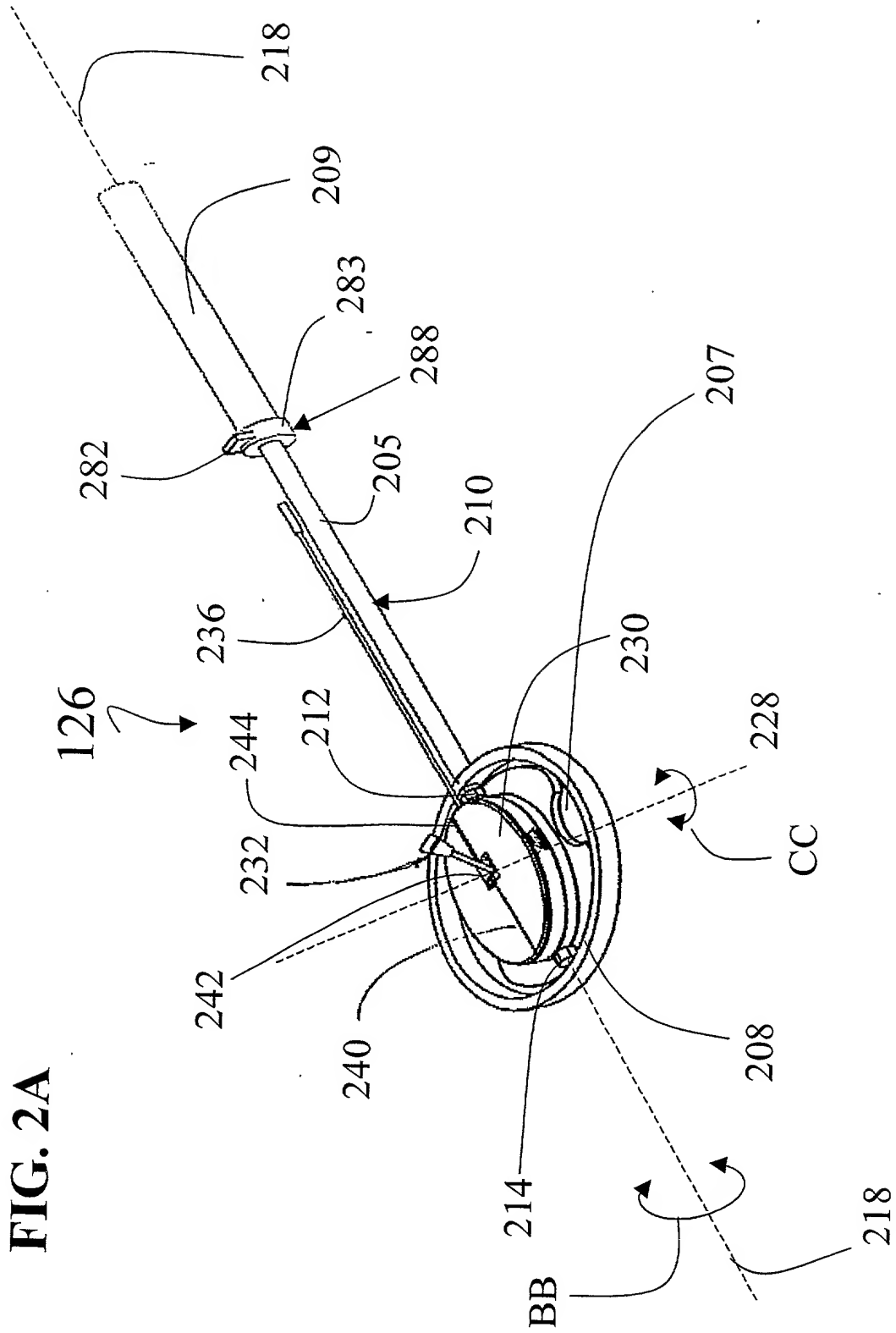
[illegible]

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FIG. 1B



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Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

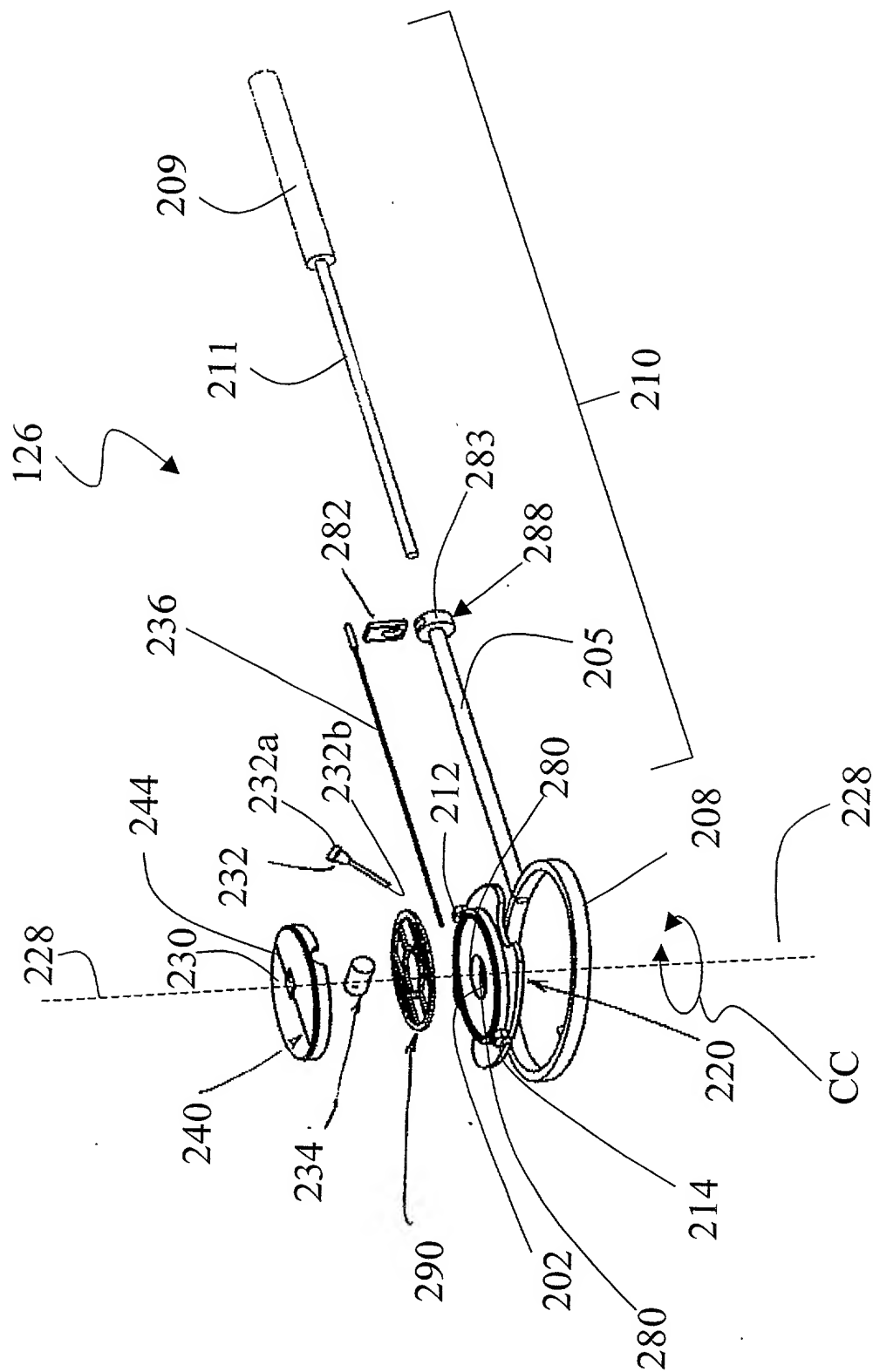
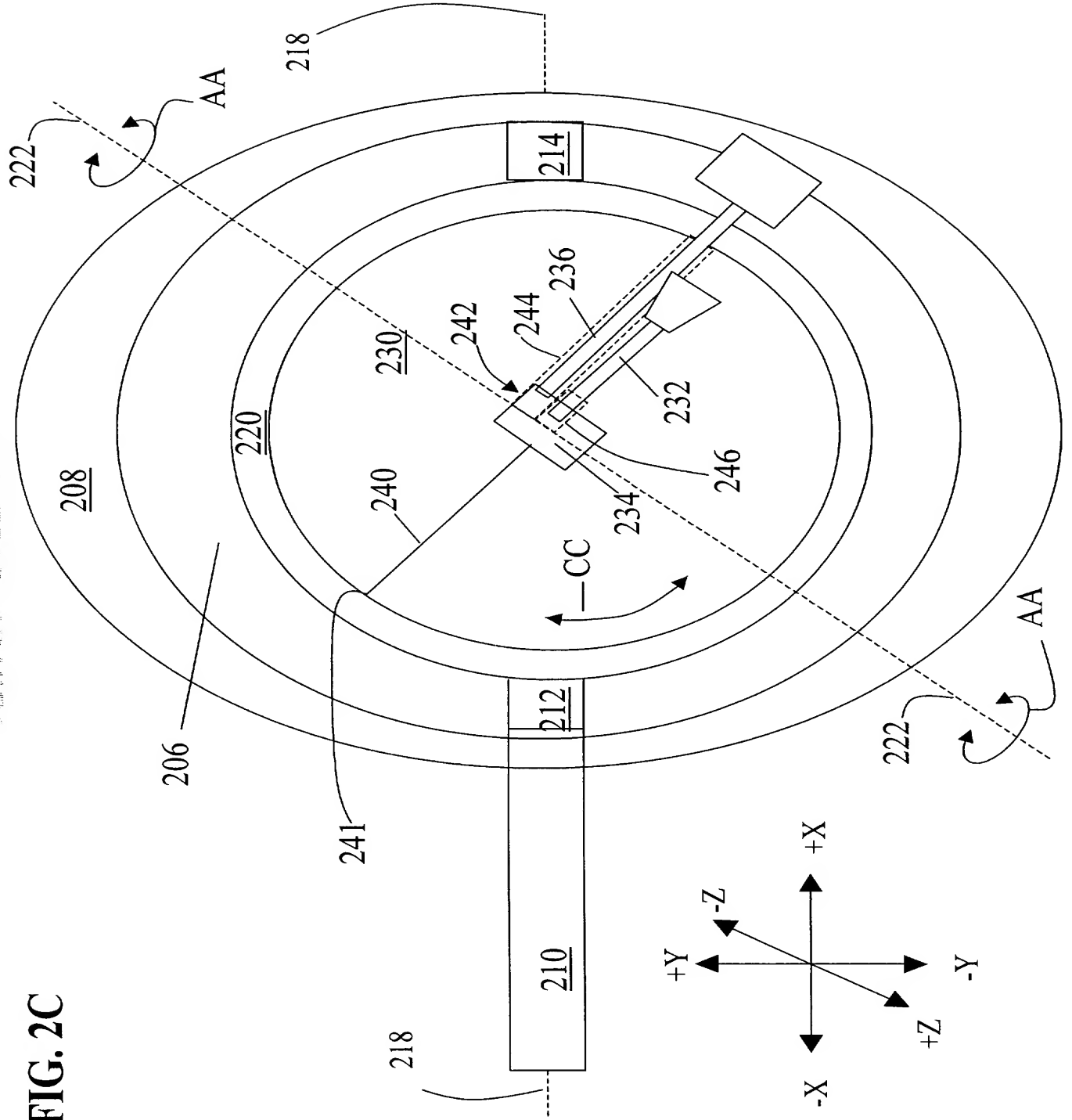


FIG. 2C



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FIG. 2D

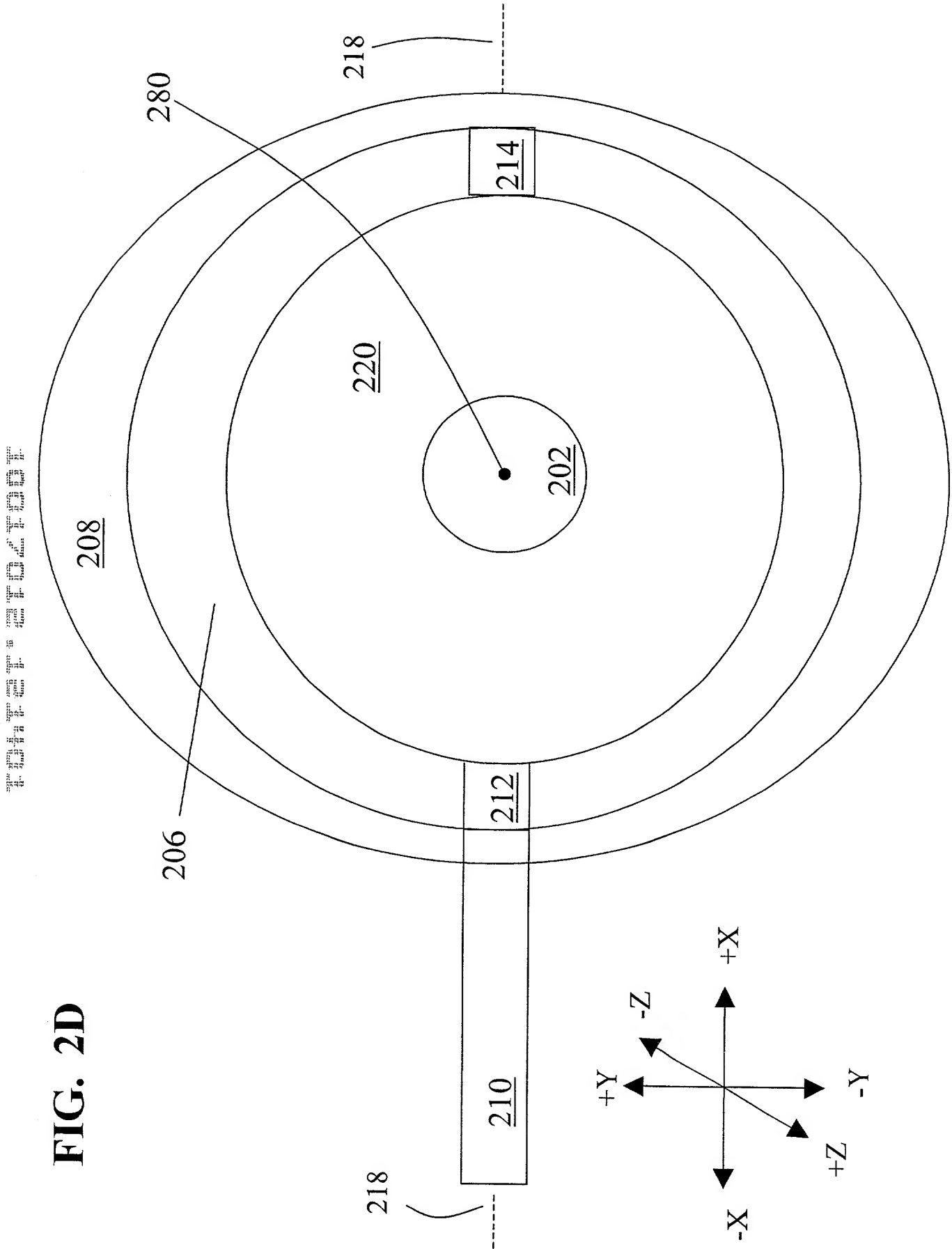
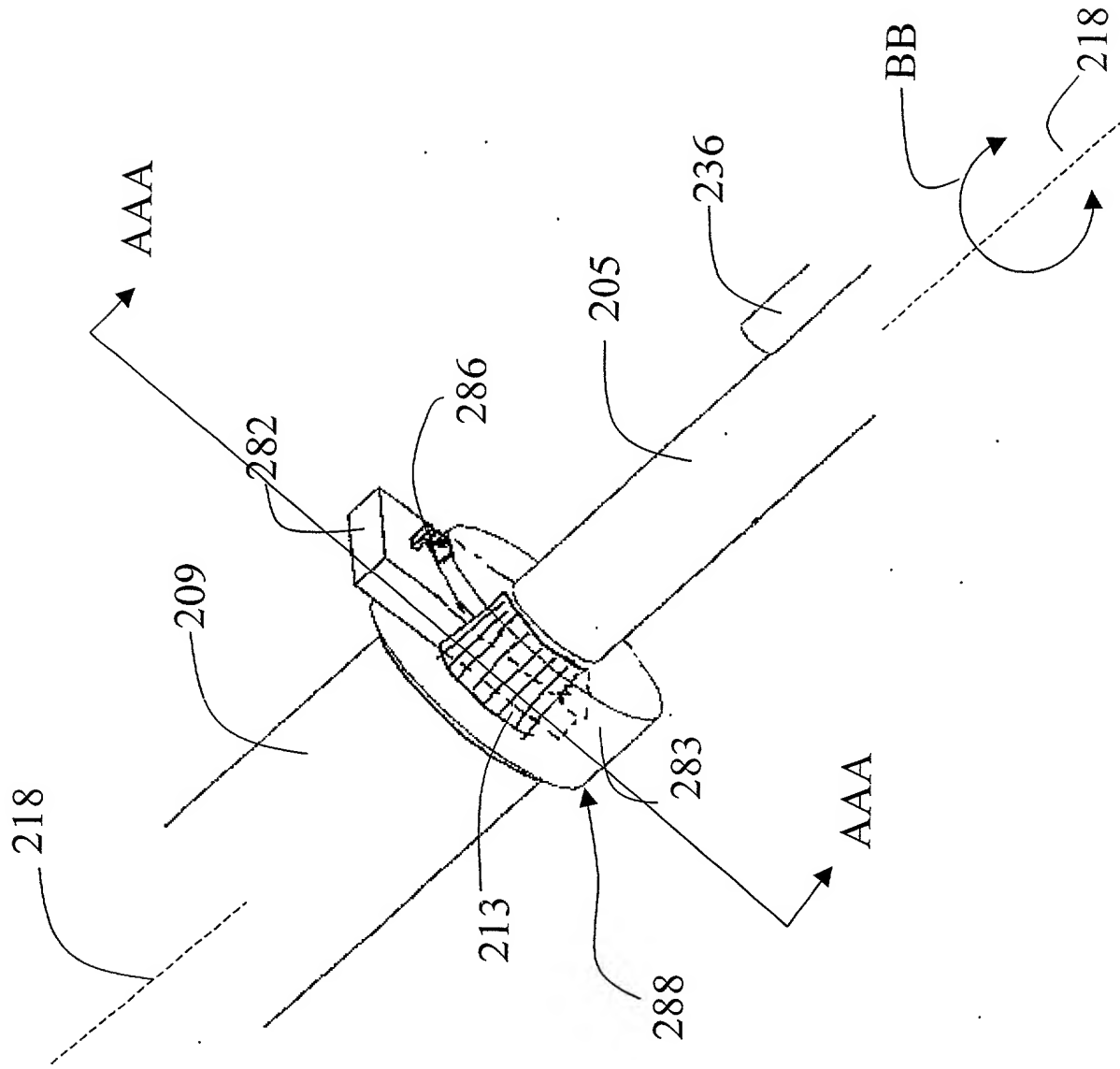


FIG. 2E



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FIG. 2F

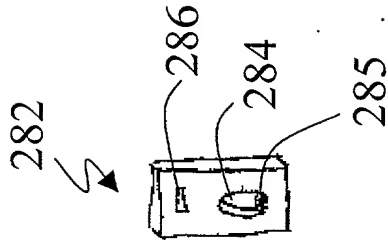
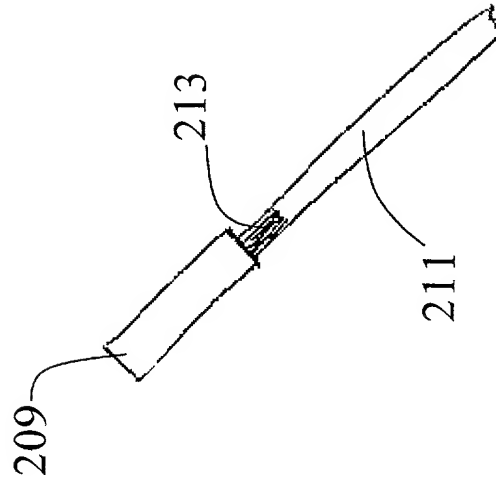


FIG. 2G

FIG. 2H

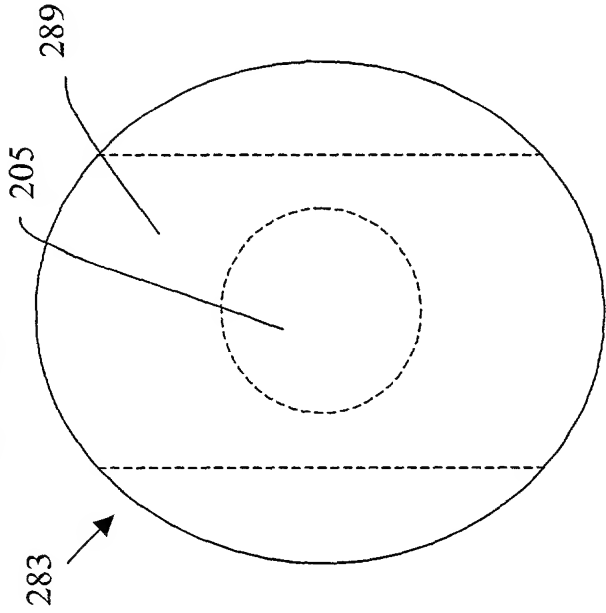


FIG. 2I

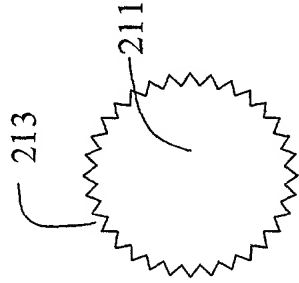
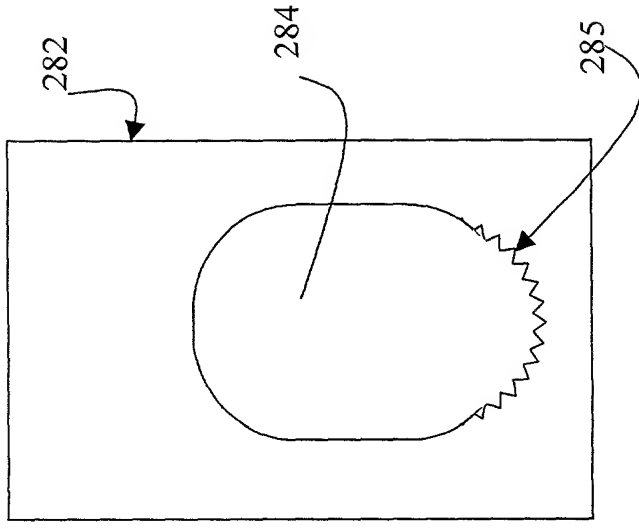


FIG. 2J

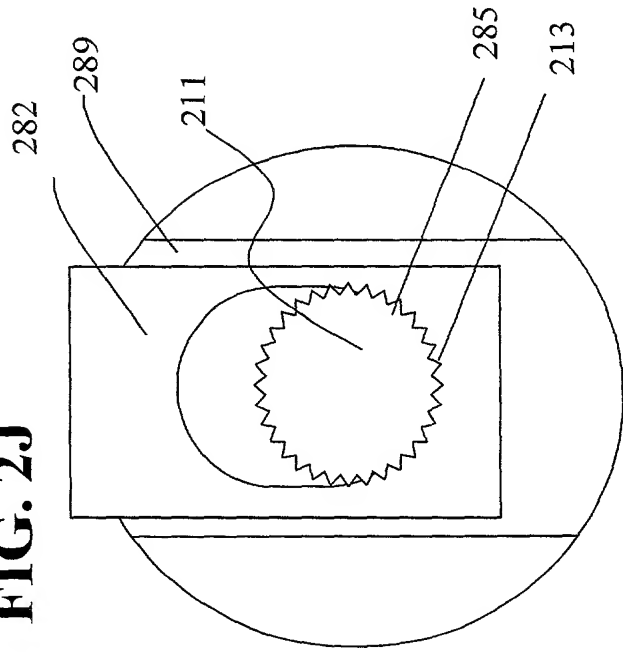


FIG. 2K

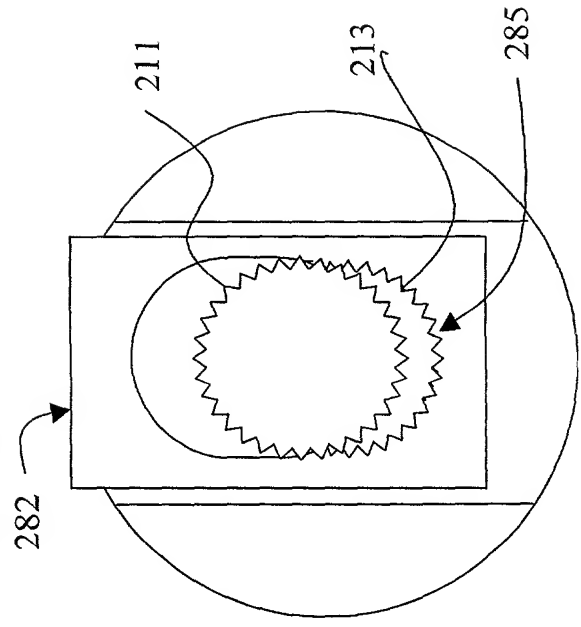


FIG. 2L

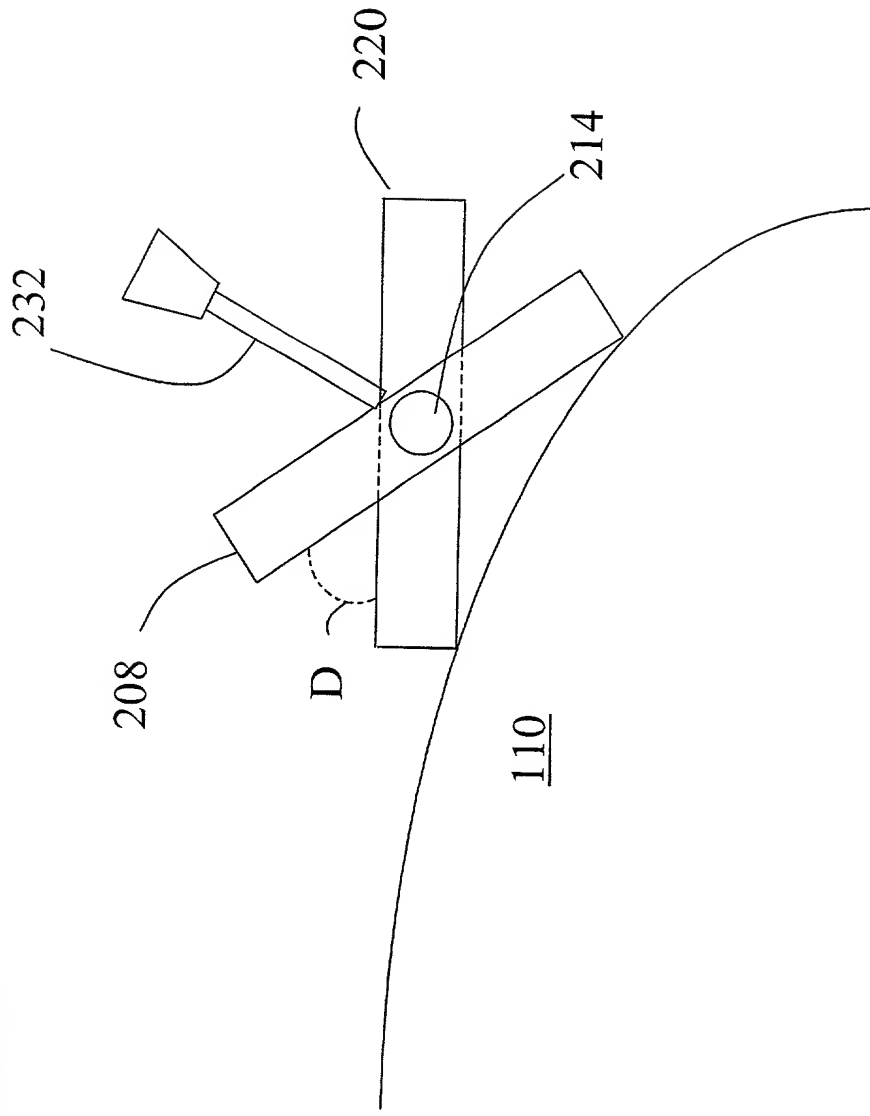


FIG. 2M

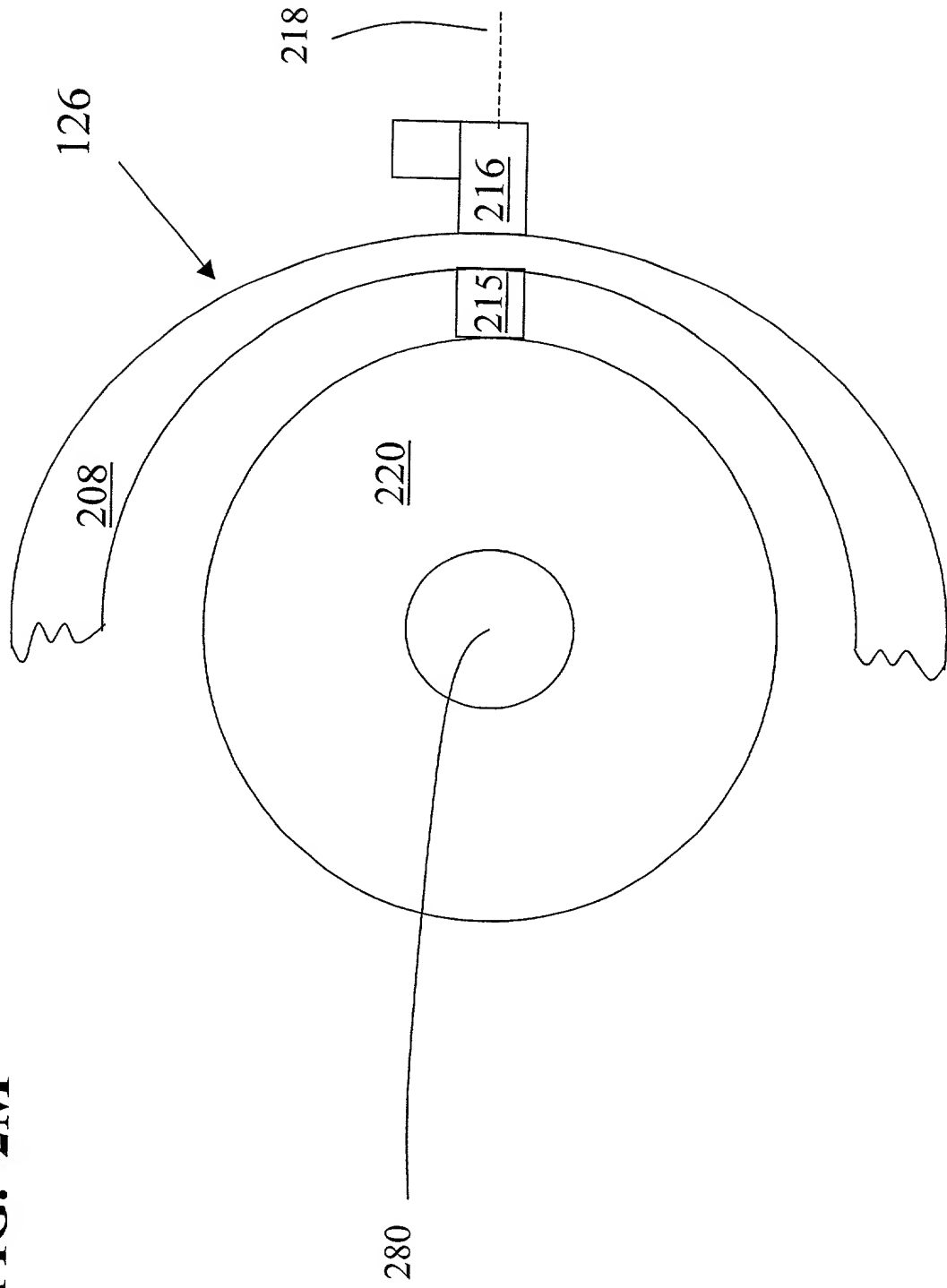


FIG. 3A

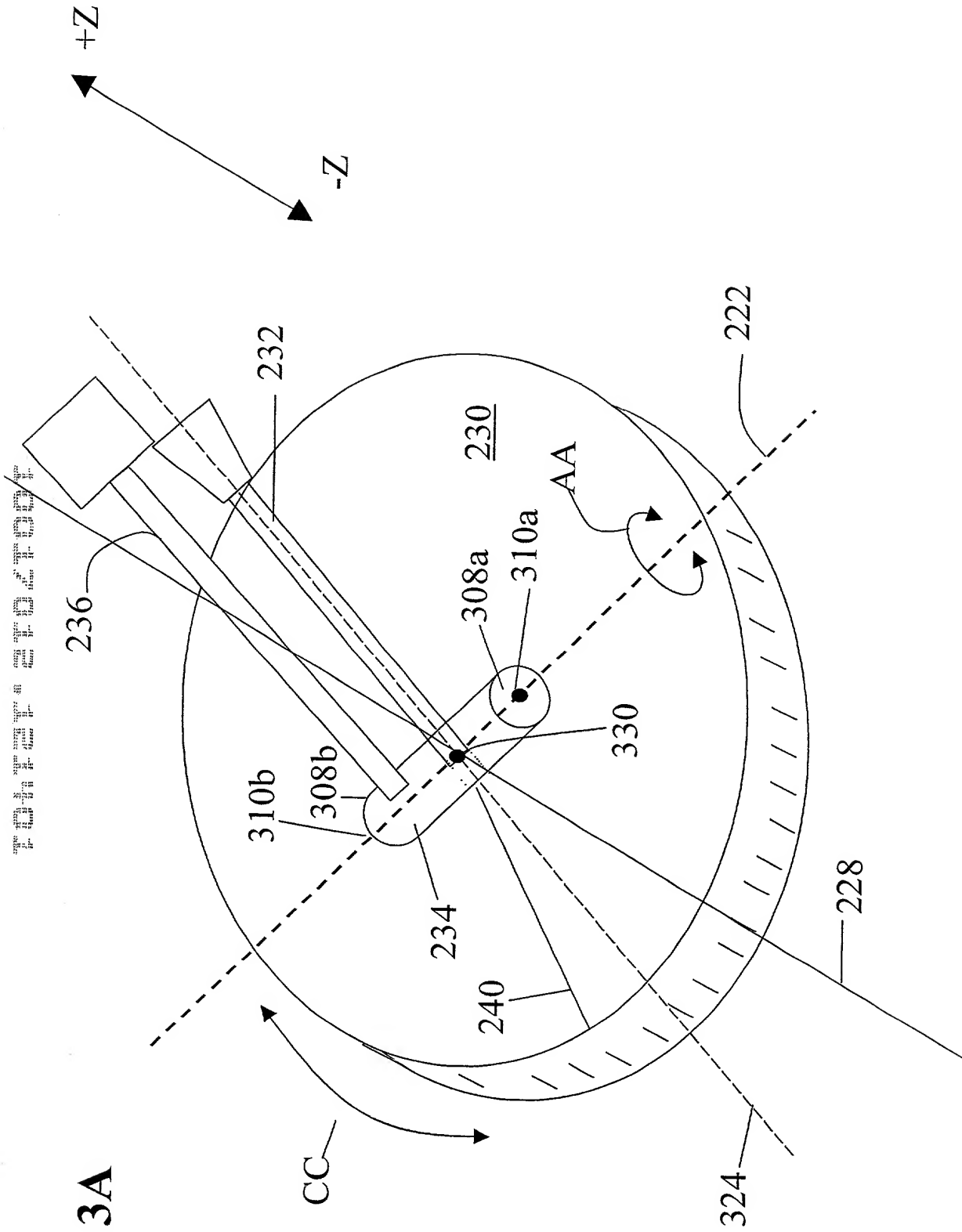


FIG. 3B

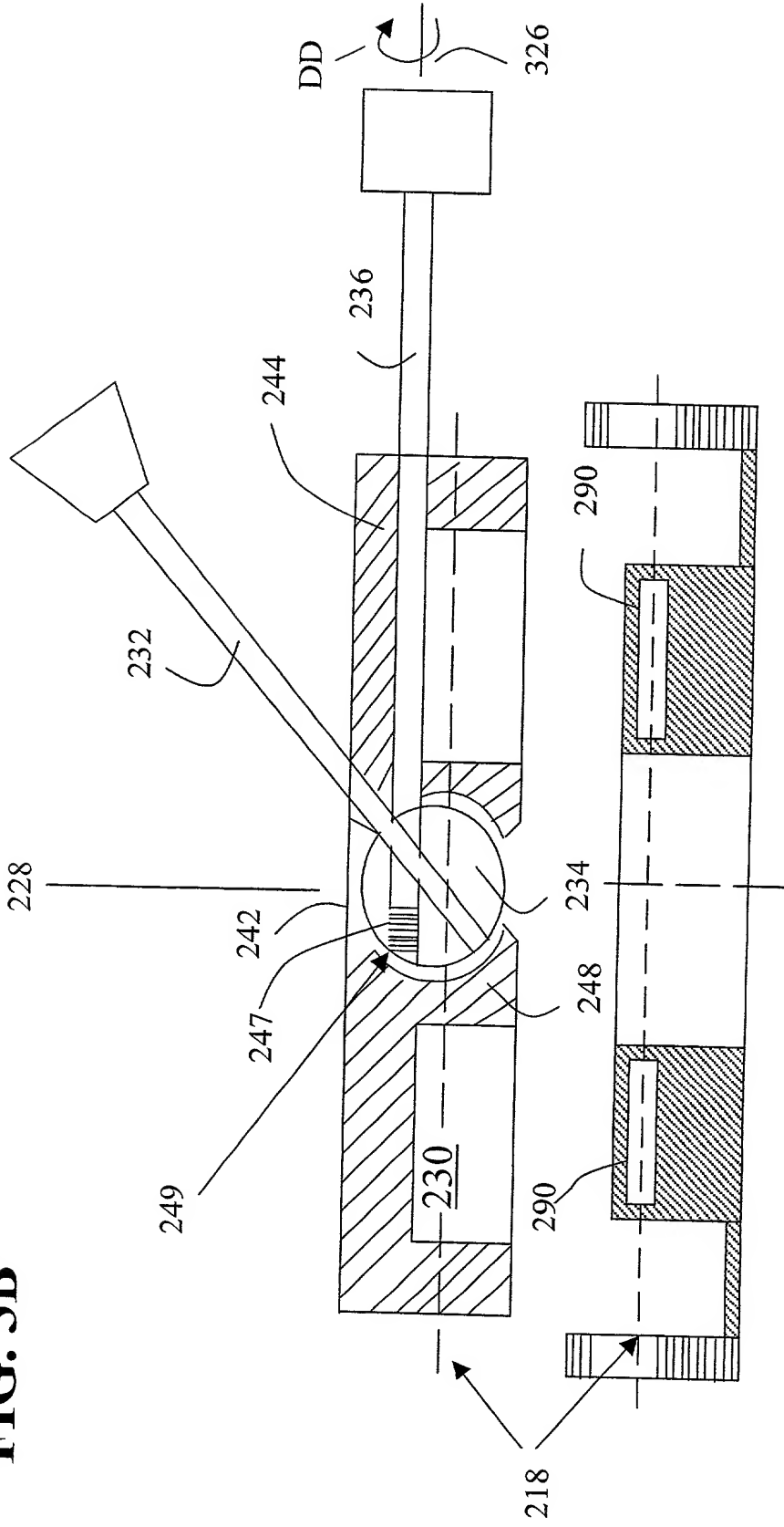


FIG. 3D

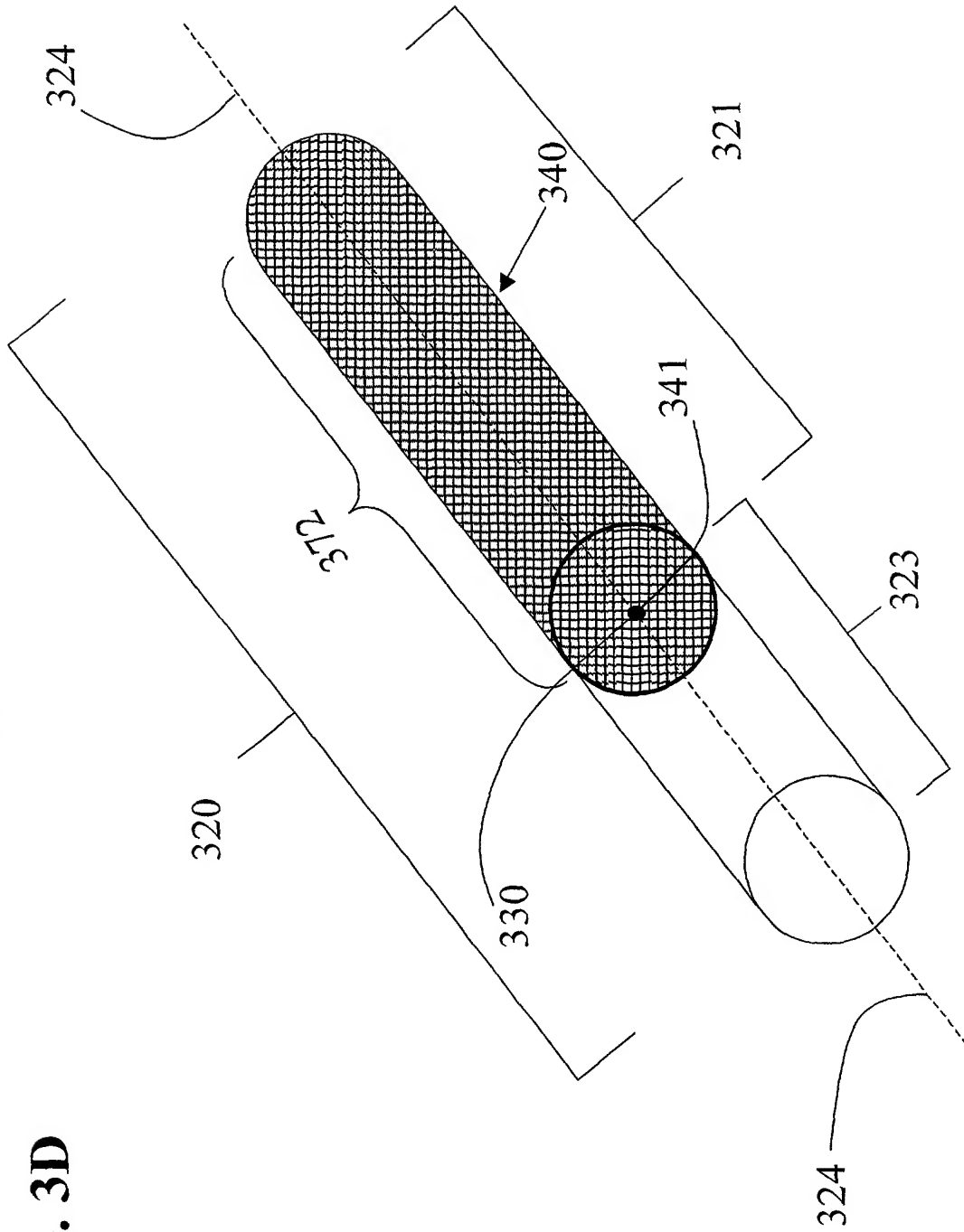


FIG. 4A

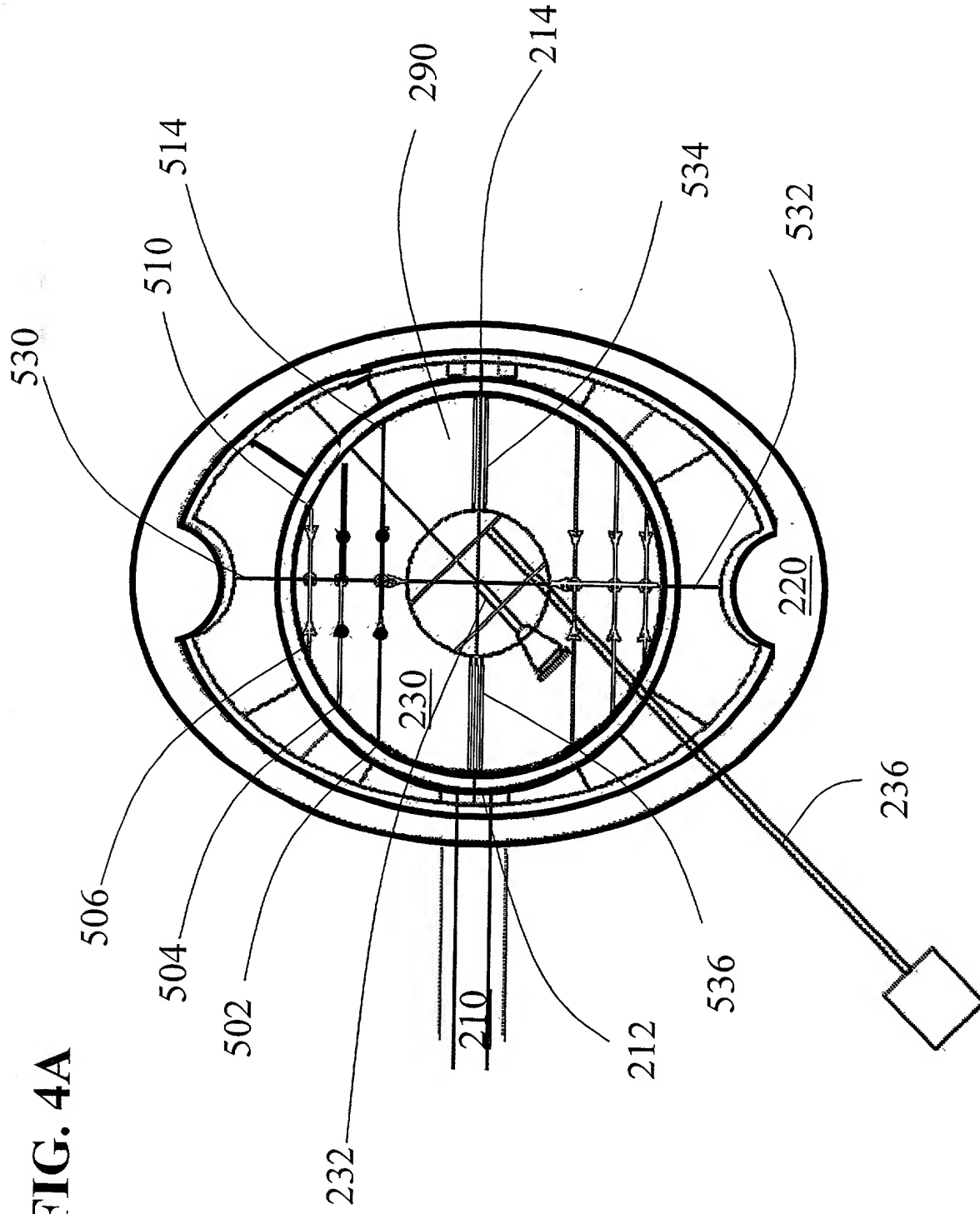
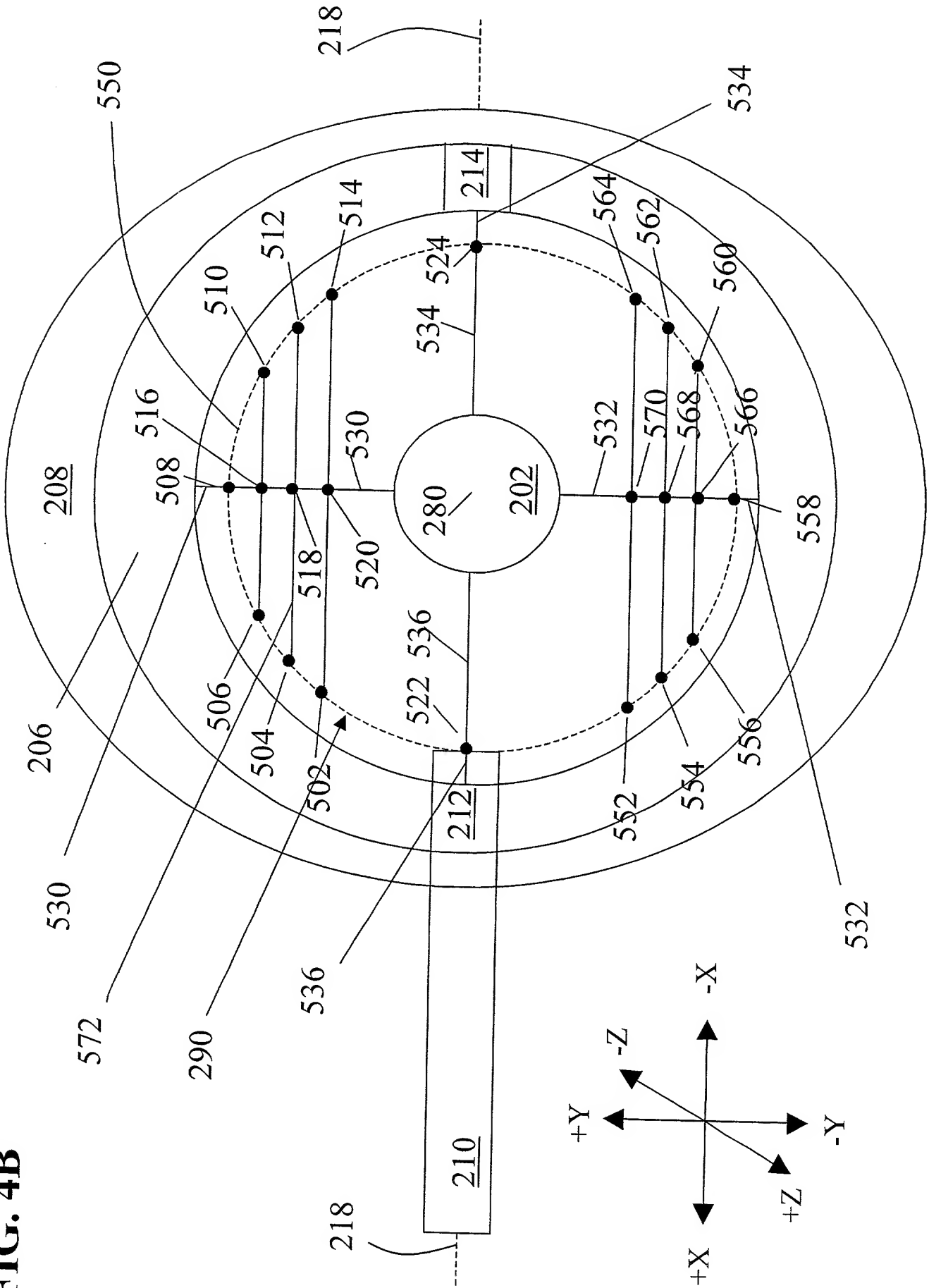


FIG. 4B

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it e Methods And Apparatus For Guiding A Needle
 Inventor(s): Chiu et al.
 Atty Docket No. BSC-216 (1002/296)
 Atty/Agent: R. Stephen Rosenholm
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 EL825369650US



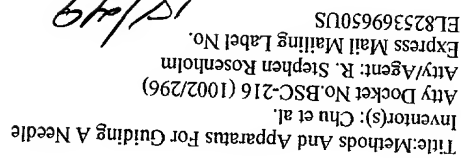
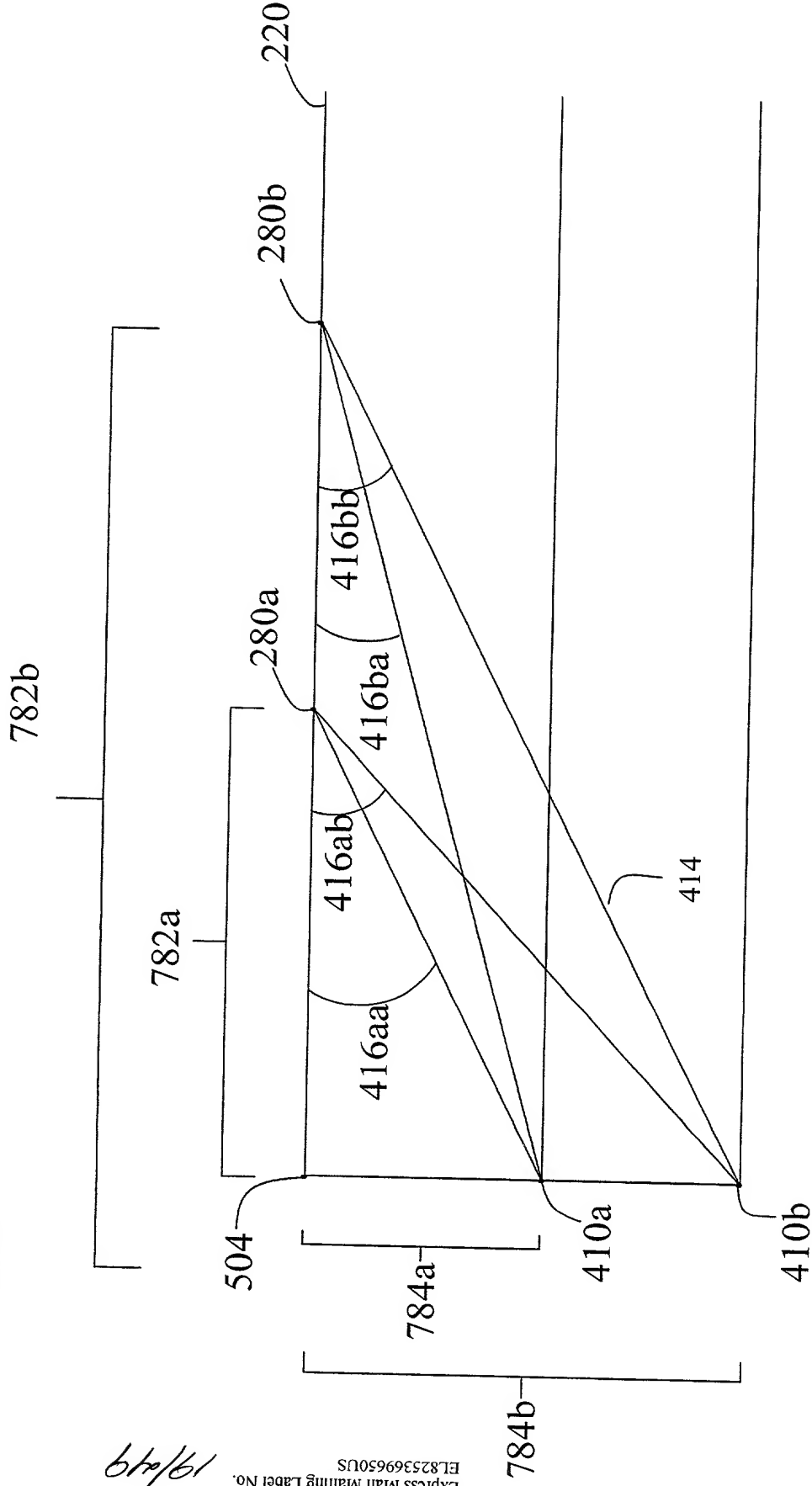
[illegible]

FIG. 5



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[illegible]

FIG. 7

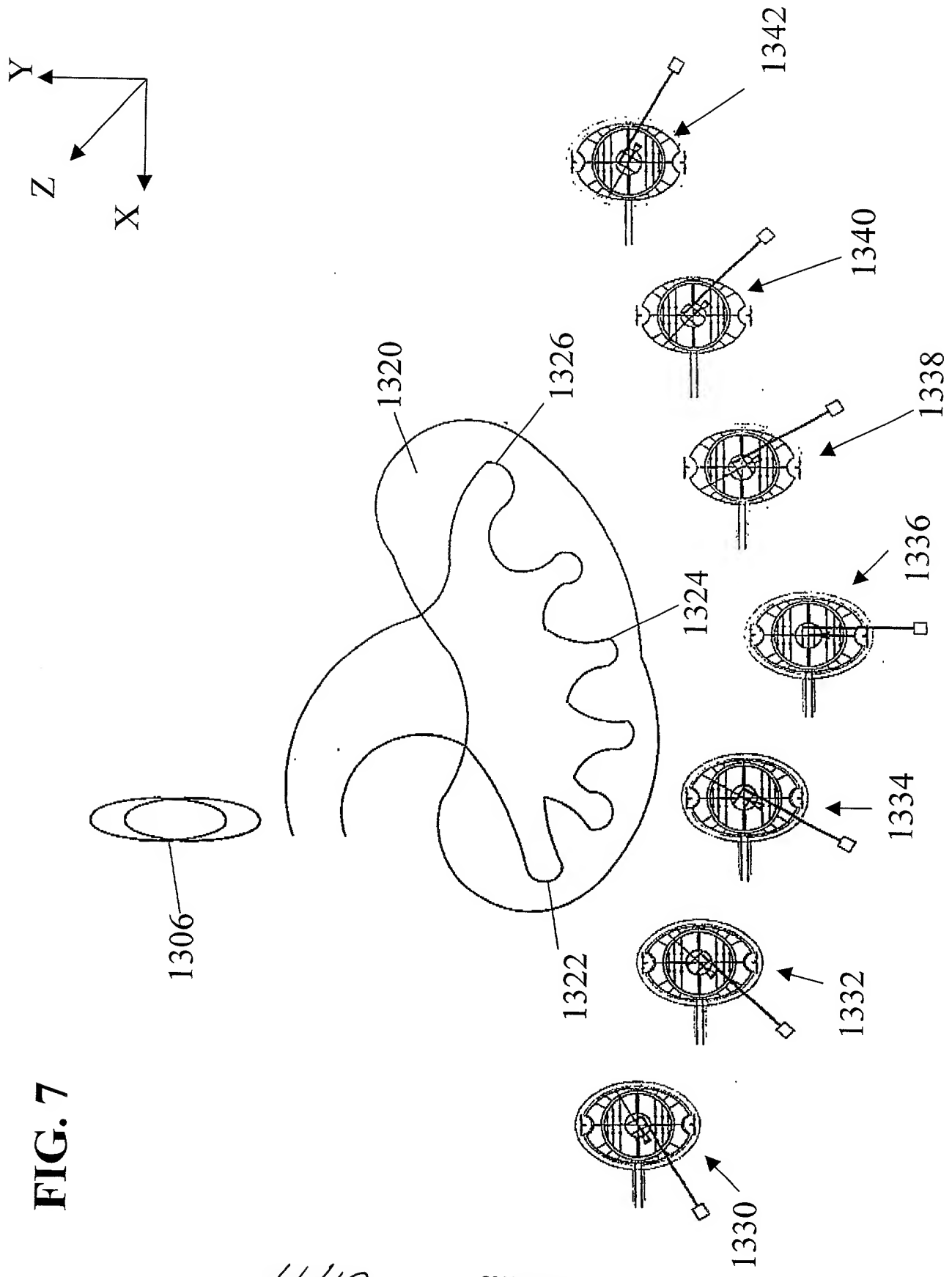


FIG. 8A

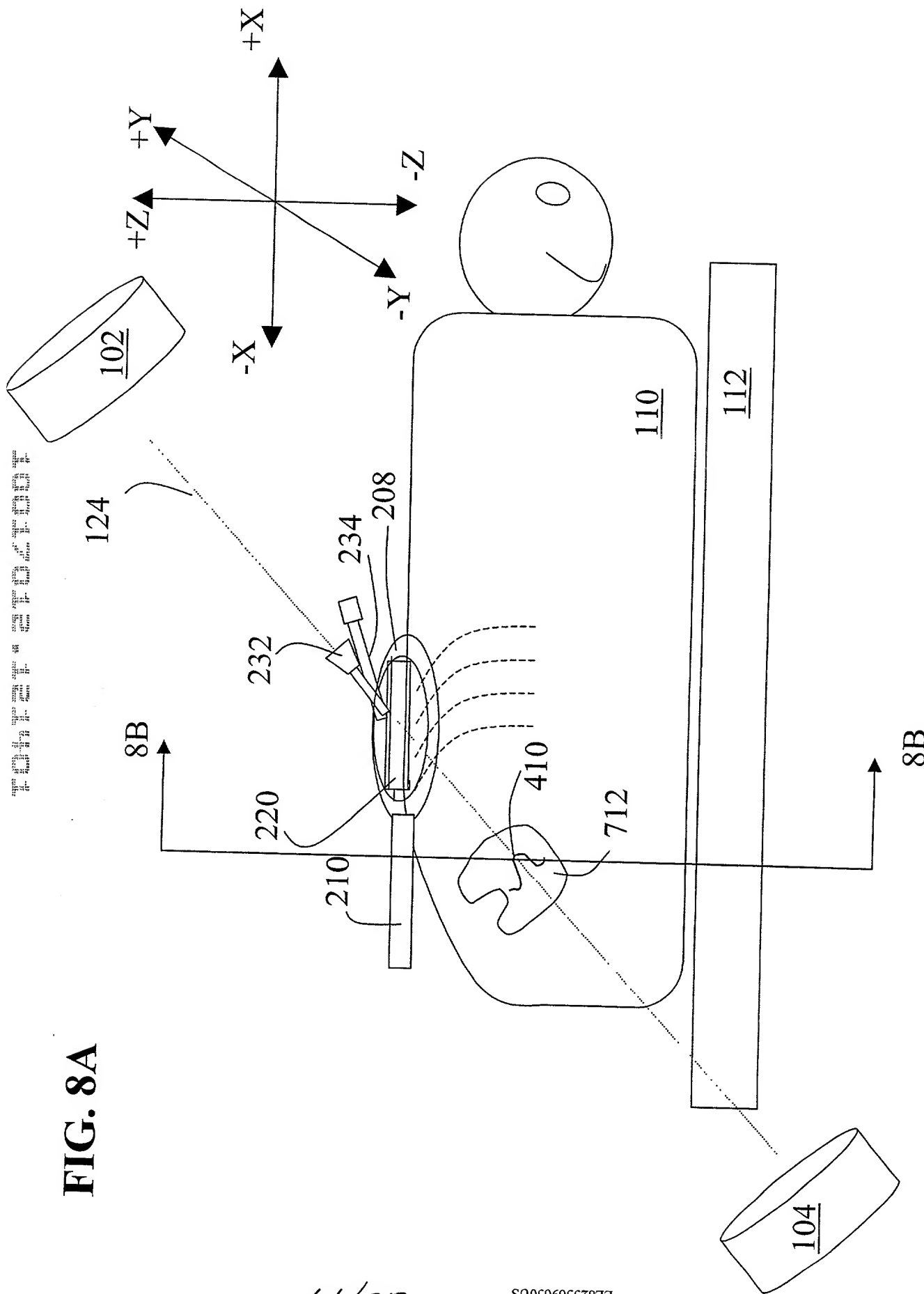
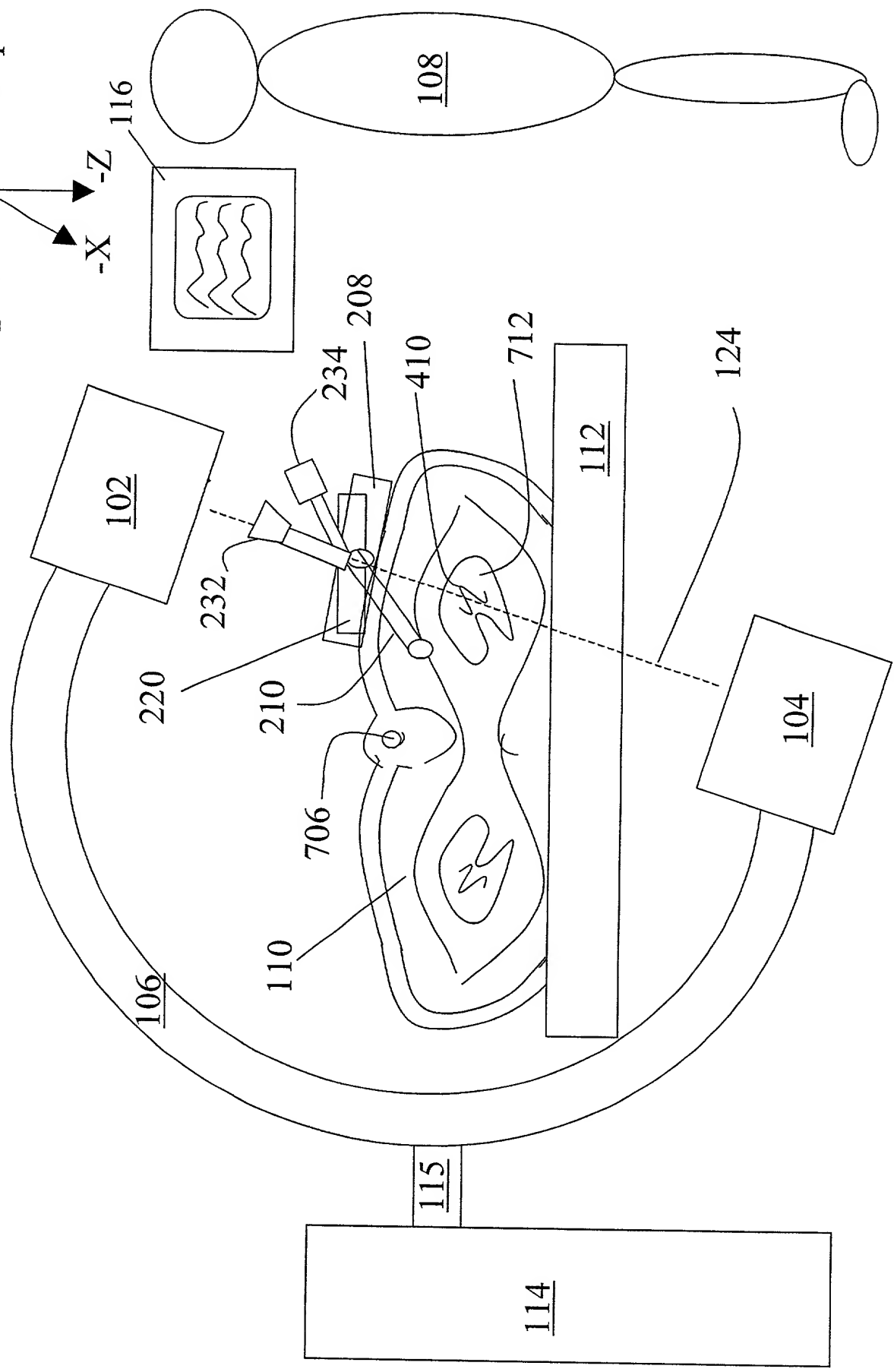
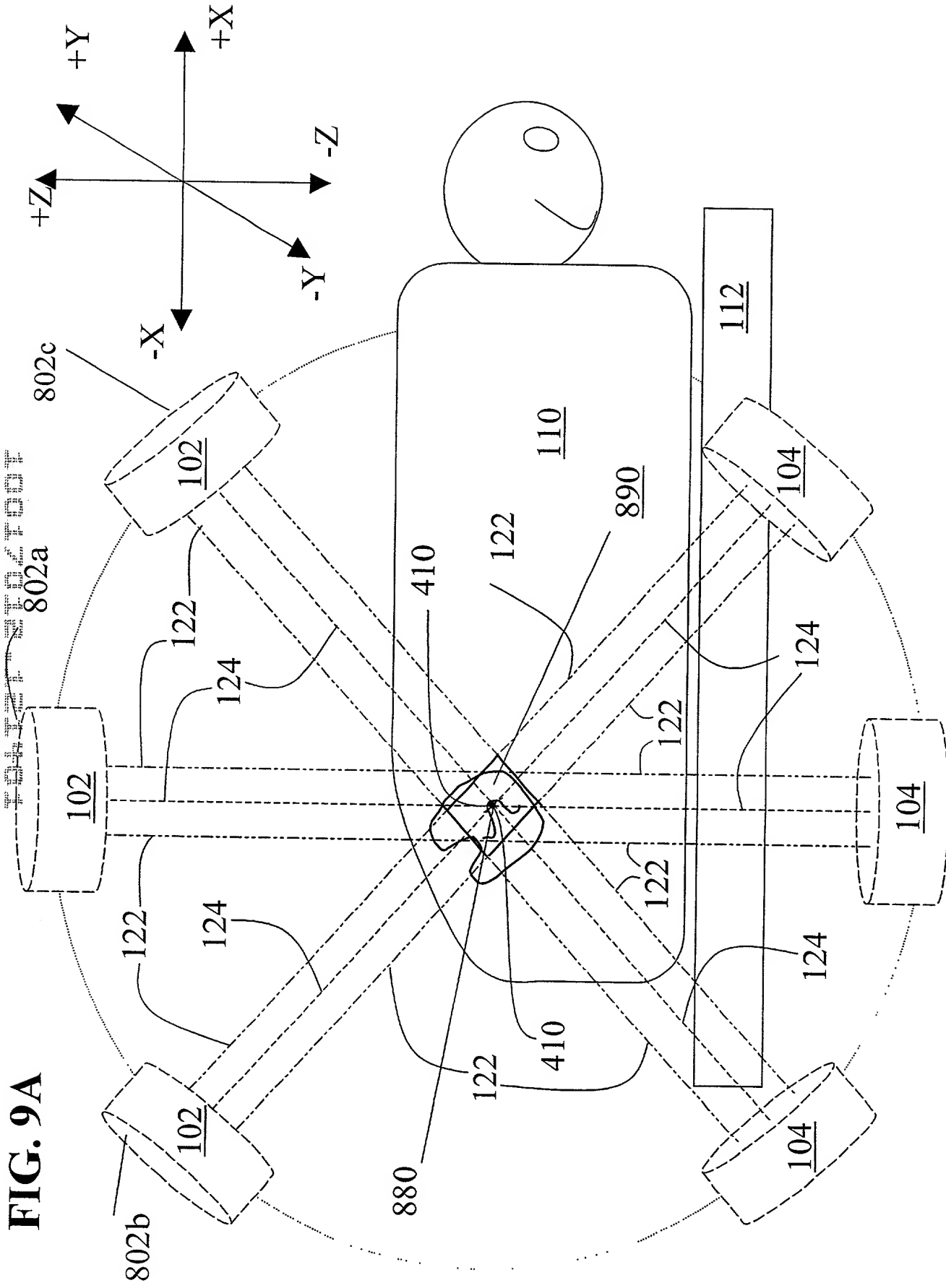


FIG. 8B

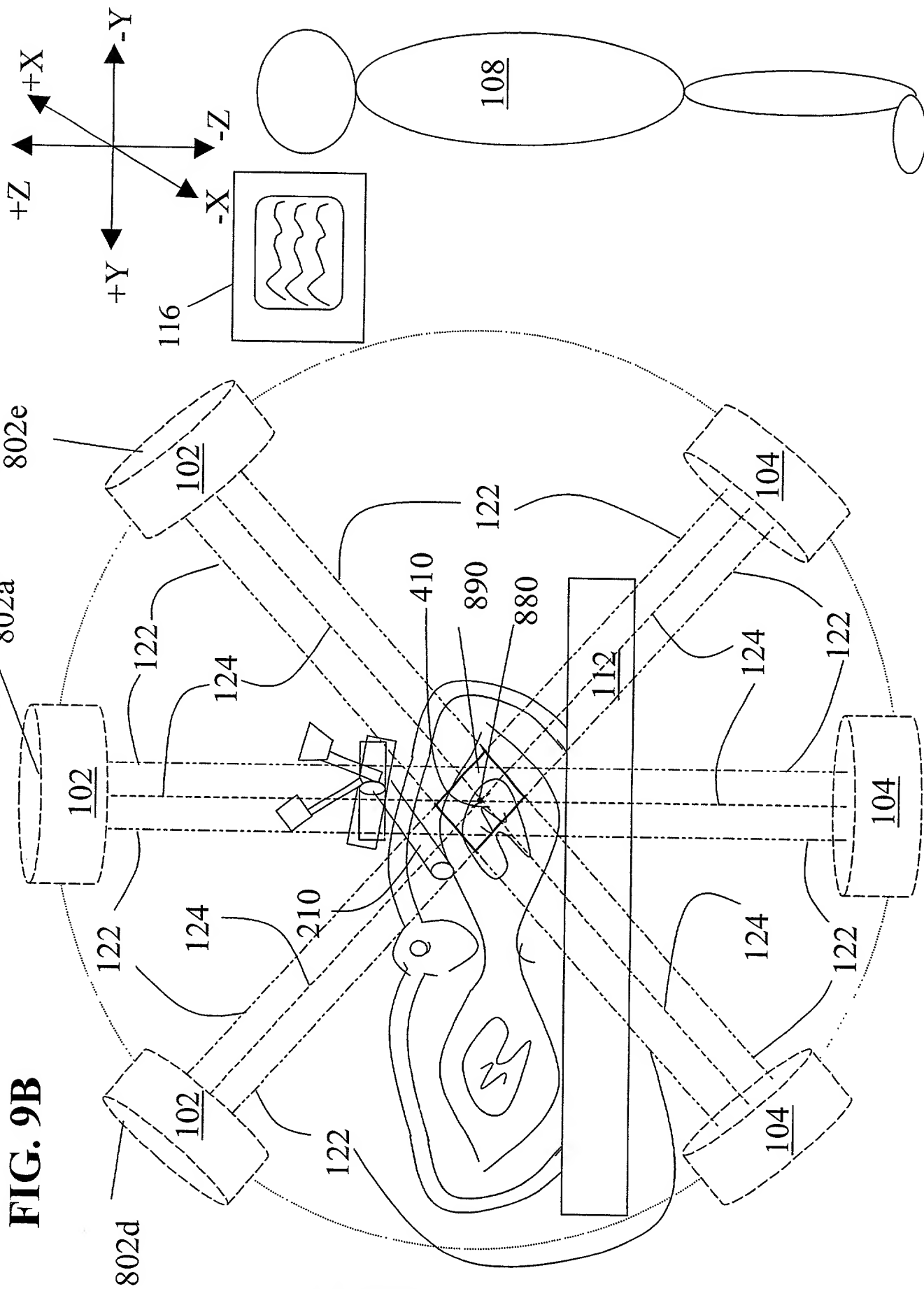


Title: Methods And Apparatus For Guiding A Needle
Inventor(s): Chu et al.
Atty Docket No. BSC-216 (1002/296)
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EL825369650US
03/49

FIG. 9A



$\frac{1}{2} \text{ sec}$ $\frac{1}{4} \text{ sec}$ $\frac{1}{8} \text{ sec}$ $\frac{1}{16} \text{ sec}$ $\frac{1}{32} \text{ sec}$ $\frac{1}{64} \text{ sec}$ $\frac{1}{128} \text{ sec}$ $\frac{1}{256} \text{ sec}$ $\frac{1}{512} \text{ sec}$ $\frac{1}{1024} \text{ sec}$ $\frac{1}{2048} \text{ sec}$ $\frac{1}{4096} \text{ sec}$ $\frac{1}{8192} \text{ sec}$ $\frac{1}{16384} \text{ sec}$ $\frac{1}{32768} \text{ sec}$ $\frac{1}{65536} \text{ sec}$ $\frac{1}{131072} \text{ sec}$ $\frac{1}{262144} \text{ sec}$ $\frac{1}{524288} \text{ sec}$ $\frac{1}{1048576} \text{ sec}$ $\frac{1}{2097152} \text{ sec}$ $\frac{1}{4194304} \text{ sec}$ $\frac{1}{8388608} \text{ sec}$ $\frac{1}{16777216} \text{ sec}$ $\frac{1}{33554432} \text{ sec}$ $\frac{1}{67108864} \text{ sec}$ $\frac{1}{134217728} \text{ sec}$ $\frac{1}{268435456} \text{ sec}$ $\frac{1}{536870912} \text{ sec}$ $\frac{1}{1073741824} \text{ sec}$ $\frac{1}{2147483648} \text{ sec}$ $\frac{1}{4294967296} \text{ sec}$ $\frac{1}{8589934592} \text{ sec}$ $\frac{1}{17179869184} \text{ sec}$ $\frac{1}{34359738368} \text{ sec}$ $\frac{1}{68719476736} \text{ sec}$ $\frac{1}{137438953472} \text{ sec}$ $\frac{1}{274877906944} \text{ sec}$ $\frac{1}{549755813888} \text{ sec}$ $\frac{1}{1099511627776} \text{ sec}$ $\frac{1}{2199023255552} \text{ sec}$ $\frac{1}{4398046511104} \text{ sec}$ $\frac{1}{8796093022208} \text{ sec}$ $\frac{1}{17592186044416} \text{ sec}$ $\frac{1}{35184372088832} \text{ sec}$ $\frac{1}{70368744177664} \text{ sec}$ $\frac{1}{140737488355328} \text{ sec}$ $\frac{1}{281474976710656} \text{ sec}$ $\frac{1}{562949953421312} \text{ sec}$ $\frac{1}{1125899906842624} \text{ sec}$ $\frac{1}{2251799813685248} \text{ sec}$ $\frac{1}{4503599627370496} \text{ sec}$ $\frac{1}{9007199254740992} \text{ sec}$ $\frac{1}{18014398509481984} \text{ sec}$ $\frac{1}{36028797018963968} \text{ sec}$ $\frac{1}{72057594037927936} \text{ sec}$ $\frac{1}{144115188075855872} \text{ sec}$ $\frac{1}{288230376151711744} \text{ sec}$ $\frac{1}{576460752303423488} \text{ sec}$ $\frac{1}{1152921504606846976} \text{ sec}$ $\frac{1}{2305843009213693952} \text{ sec}$ $\frac{1}{4611686018427387904} \text{ sec}$ $\frac{1}{9223372036854775808} \text{ sec}$ $\frac{1}{18446744073709551616} \text{ sec}$ $\frac{1}{36893488147419103232} \text{ sec}$ $\frac{1}{73786976294838206464} \text{ sec}$ $\frac{1}{147573952589676412928} \text{ sec}$ $\frac{1}{295147905179352825856} \text{ sec}$ $\frac{1}{590295810358705651712} \text{ sec}$ $\frac{1}{1180591620717411303424} \text{ sec}$ $\frac{1}{2361183241434822606848} \text{ sec}$ $\frac{1}{4722366482869645213696} \text{ sec}$ $\frac{1}{9444732965739290427392} \text{ sec}$ $\frac{1}{18889465931478580854784} \text{ sec}$ $\frac{1}{37778931862957161709568} \text{ sec}$ $\frac{1}{75557863725914323419136} \text{ sec}$ $\frac{1}{151115727451828646838272} \text{ sec}$ $\frac{1}{302231454903657293676544} \text{ sec}$ $\frac{1}{604462909807314587353088} \text{ sec}$ $\frac{1}{1208925819614629174706176} \text{ sec}$ $\frac{1}{2417851639229258349412352} \text{ sec}$ $\frac{1}{4835703278458516698824704} \text{ sec}$ $\frac{1}{9671406556917033397649408} \text{ sec}$ $\frac{1}{19342813113834066795298816} \text{ sec}$ $\frac{1}{38685626227668133590597632} \text{ sec}$ $\frac{1}{77371252455336267181195264} \text{ sec}$ $\frac{1}{154742504910672534362390528} \text{ sec}$ $\frac{1}{309485009821345068724781056} \text{ sec}$ $\frac{1}{618970019642690137449562112} \text{ sec}$ $\frac{1}{1237940039285380274899124224} \text{ sec}$ $\frac{1}{2475880078570760549798248448} \text{ sec}$ $\frac{1}{4951760157141521099596496896} \text{ sec}$ $\frac{1}{9903520314283042199192993792} \text{ sec}$ $\frac{1}{19807040628566084398385987584} \text{ sec}$ $\frac{1}{39614081257132168796771975168} \text{ sec}$ $\frac{1}{79228162514264337593543950336} \text{ sec}$ $\frac{1}{158456325028528675187087900672} \text{ sec}$ $\frac{1}{316912650057057350374175801344} \text{ sec}$ $\frac{1}{633825300114114700748351602688} \text{ sec}$ $\frac{1}{1267650600228229401496703205376} \text{ sec}$ $\frac{1}{2535301200456458802993406410752} \text{ sec}$ $\frac{1}{5070602400912917605986812821504} \text{ sec}$ $\frac{1}{10141204801825835211973625643008} \text{ sec}$ $\frac{1}{20282409603651670423947251286016} \text{ sec}$ $\frac{1}{40564819207303340847894502572032} \text{ sec}$ $\frac{1}{81129638414606681695789005144064} \text{ sec}$ $\frac{1}{162259276829213363391578010288128} \text{ sec}$ $\frac{1}{324518553658426726783156020576256} \text{ sec}$ $\frac{1}{649037107316853453566312041152512} \text{ sec}$ $\frac{1}{1298074214633706907132624082305024} \text{ sec}$ $\frac{1}{2596148429267413814265248164610048} \text{ sec}$ $\frac{1}{5192296858534827628530496329220096} \text{ sec}$ $\frac{1}{10384593717069655257060992658440192} \text{ sec}$ $\frac{1}{20769187434139310514121985316880384} \text{ sec}</$	
---	--



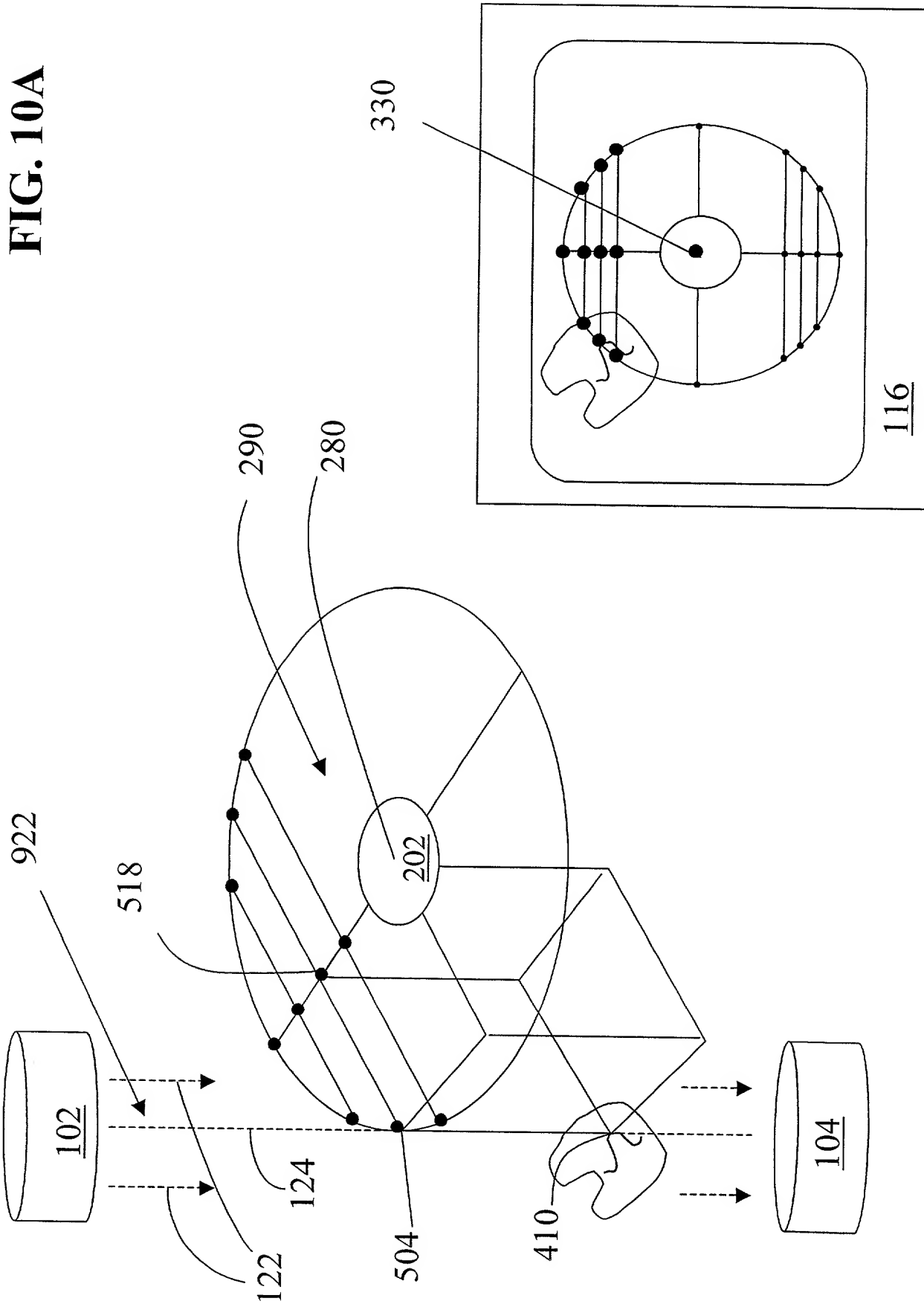
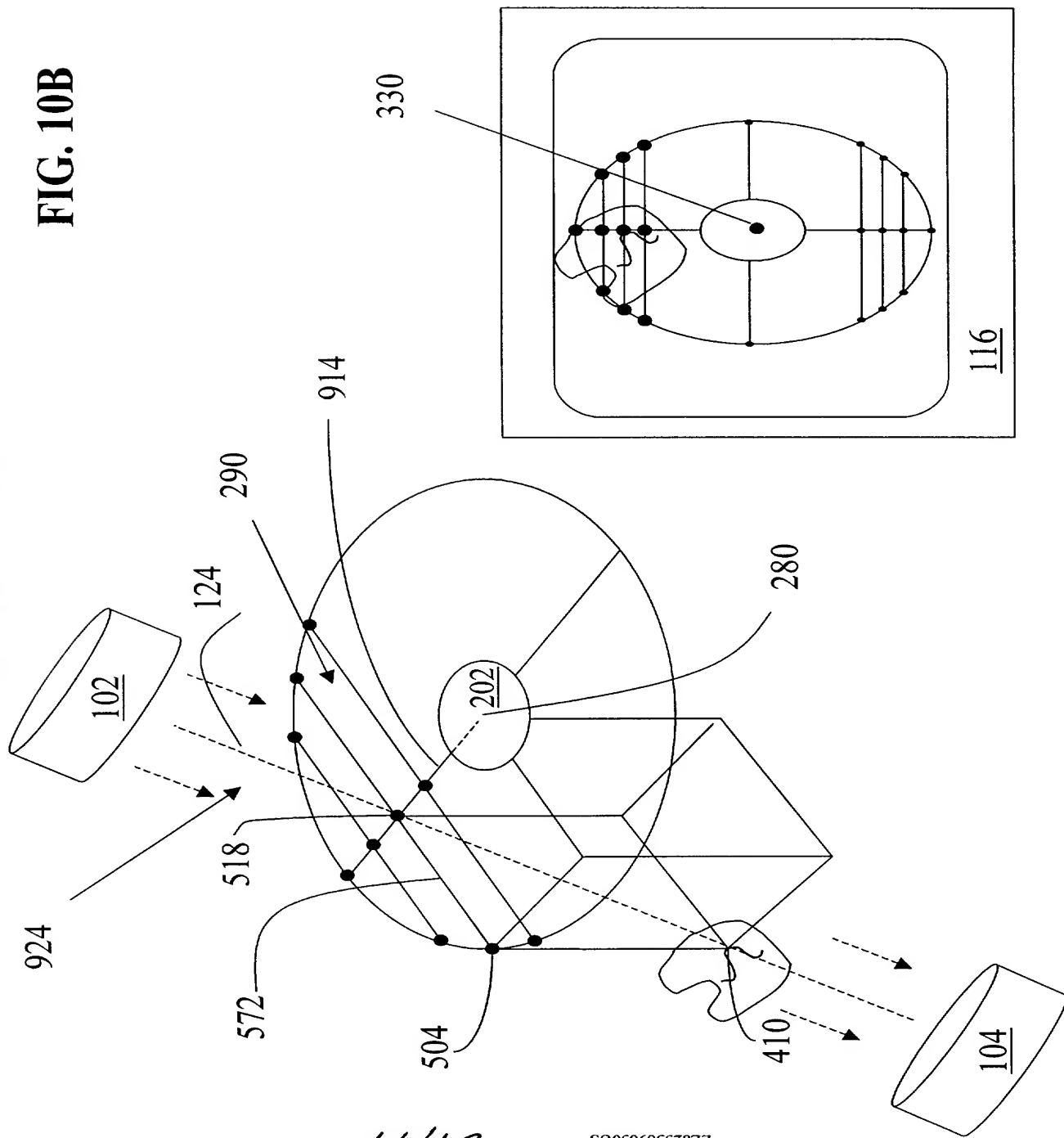


FIG. 10A

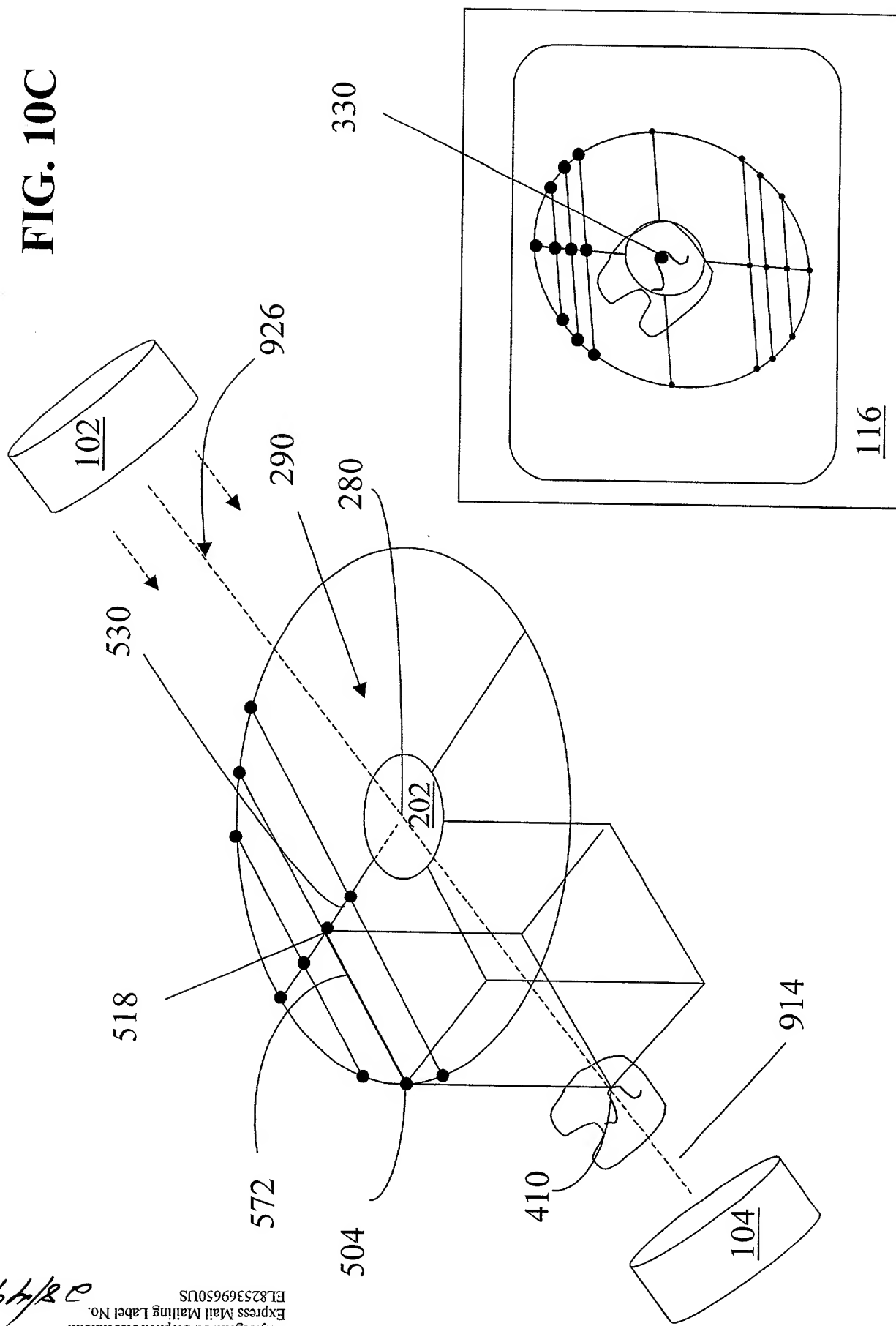
FIG. 10B



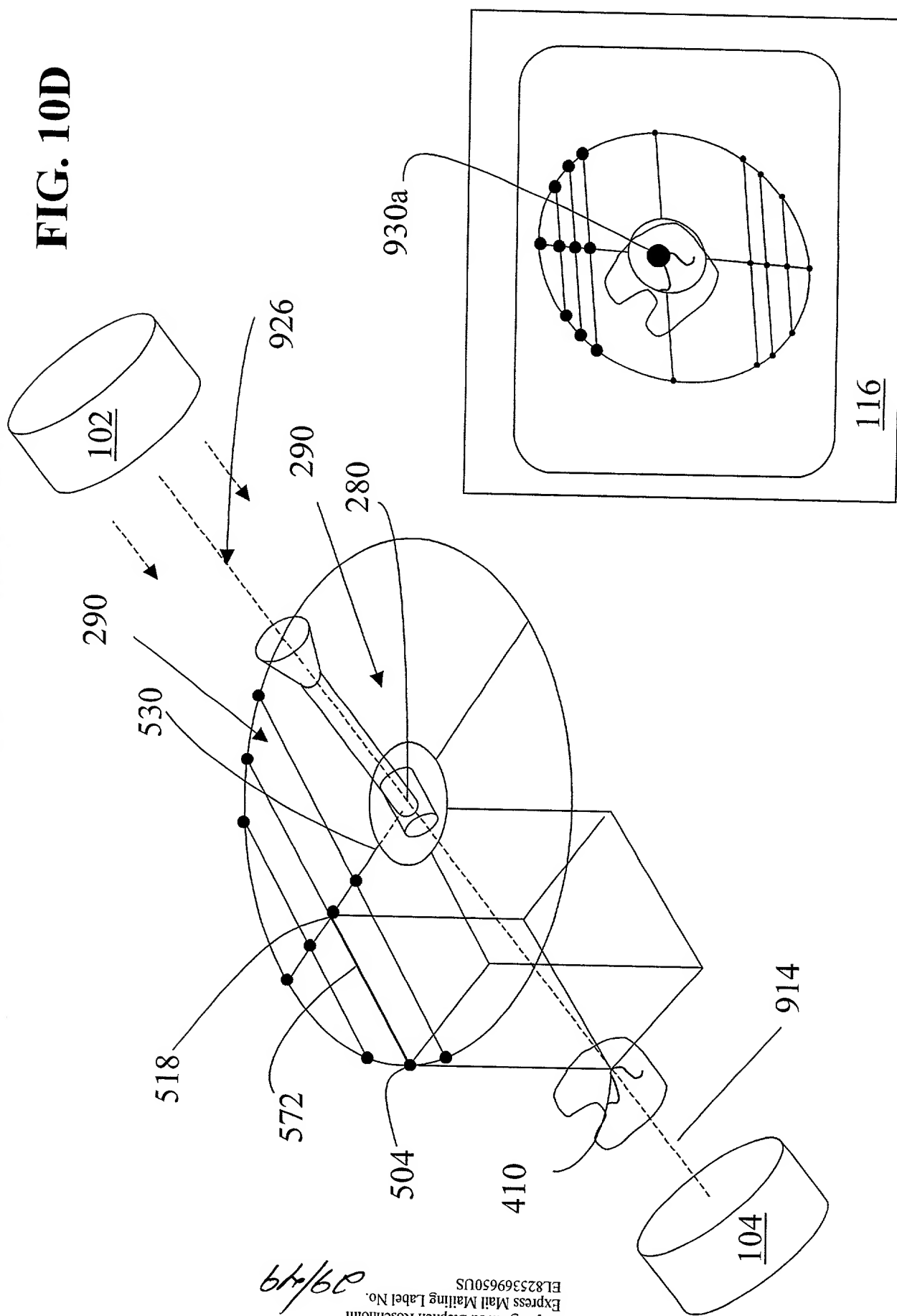
Title: Methods And Apparatus For Guiding A Needle
 Inventor(s): Chu et al.
 Atty Docket No. BSC-216 (1002/296)
 Atty/Agent: R. Stephen Rosenholm
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 EL825369650US
 6/4/99

6/7/90

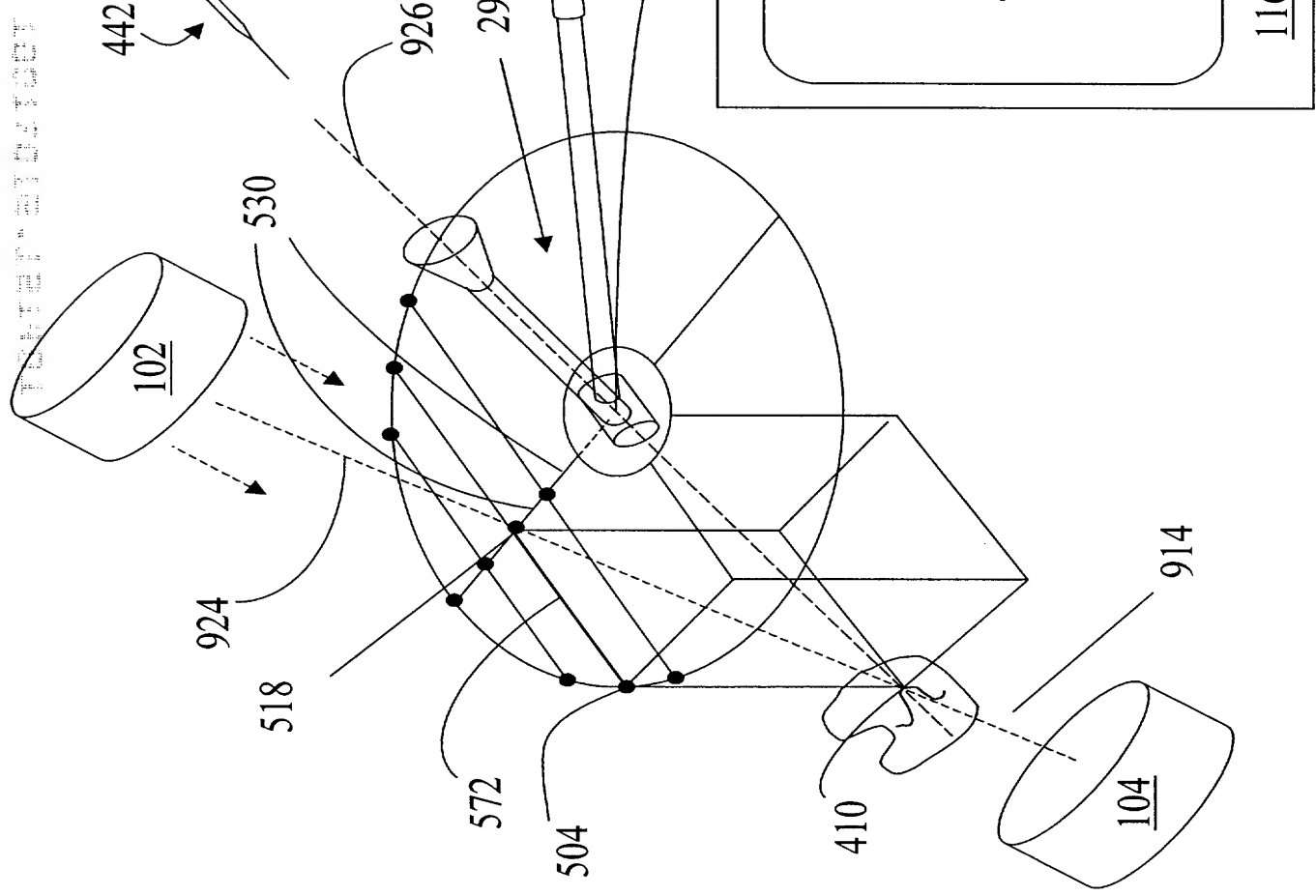
FIG. 10C



Year	Country	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)
1950	France	40.0	20.0	50.0	100	200
1955	France	42.0	21.0	50.0	100	200
1960	France	44.0	22.0	50.0	100	200
1965	France	46.0	23.0	50.0	100	200
1970	France	48.0	24.0	50.0	100	200
1975	France	50.0	25.0	50.0	100	200
1980	France	52.0	26.0	50.0	100	200
1985	France	54.0	27.0	50.0	100	200
1990	France	56.0	28.0	50.0	100	200
1995	France	58.0	29.0	50.0	100	200
2000	France	60.0	30.0	50.0	100	200
2005	France	62.0	31.0	50.0	100	200
2010	France	64.0	32.0	50.0	100	200
2015	France	66.0	33.0	50.0	100	200
2020	France	68.0	34.0	50.0	100	200
2025	France	70.0	35.0	50.0	100	200
2030	France	72.0	36.0	50.0	100	200
2035	France	74.0	37.0	50.0	100	200
2040	France	76.0	38.0	50.0	100	200
2045	France	78.0	39.0	50.0	100	200
2050	France	80.0	40.0	50.0	100	200
2055	France	82.0	41.0	50.0	100	200
2060	France	84.0	42.0	50.0	100	200
2065	France	86.0	43.0	50.0	100	200
2070	France	88.0	44.0	50.0	100	200
2075	France	90.0	45.0	50.0	100	200
2080	France	92.0	46.0	50.0	100	200
2085	France	94.0	47.0	50.0	100	200
2090	France	96.0	48.0	50.0	100	200
2095	France	98.0	49.0	50.0	100	200
2100	France	100.0	50.0	50.0	100	200



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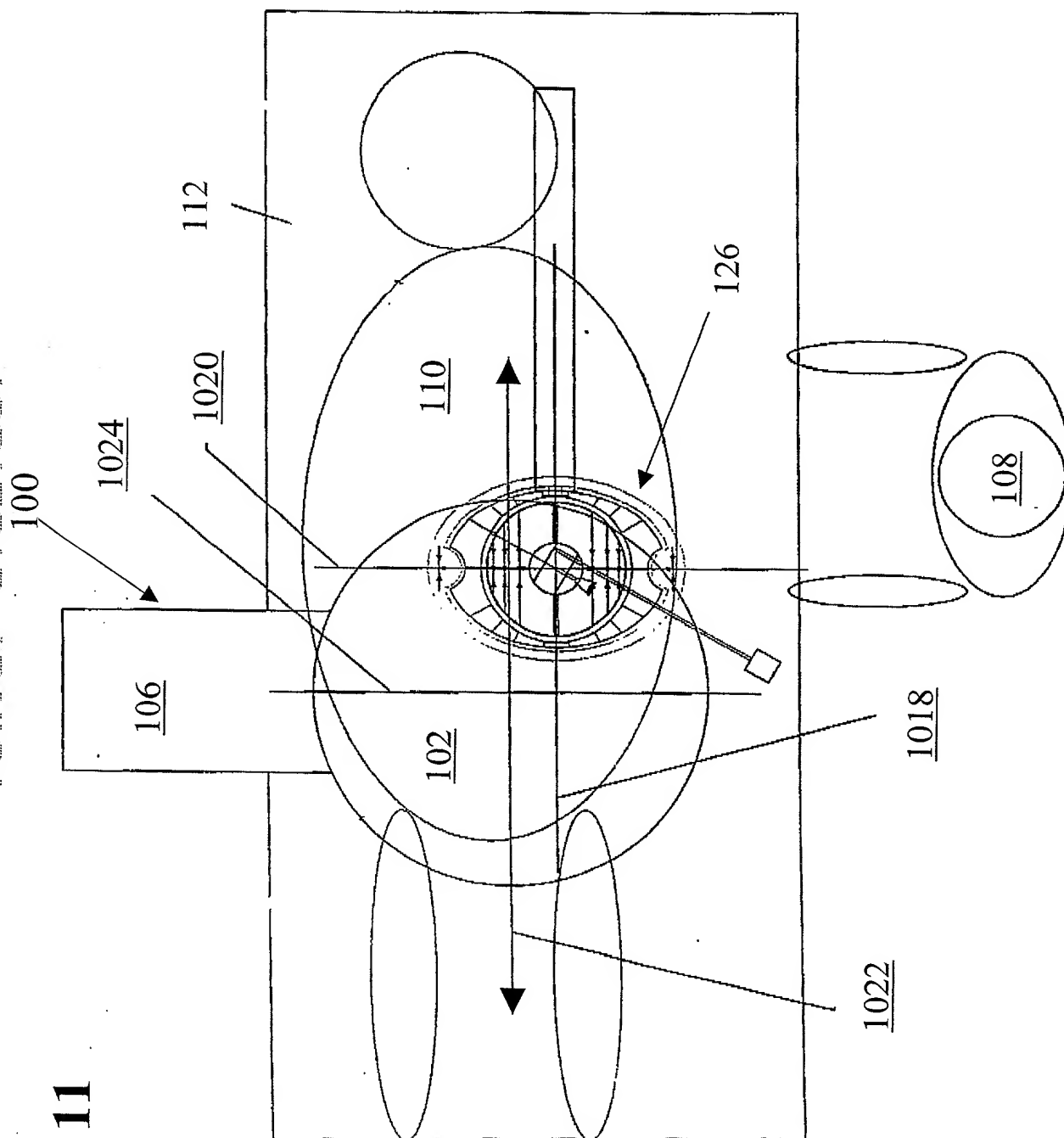
[illegible]

FIG. 12

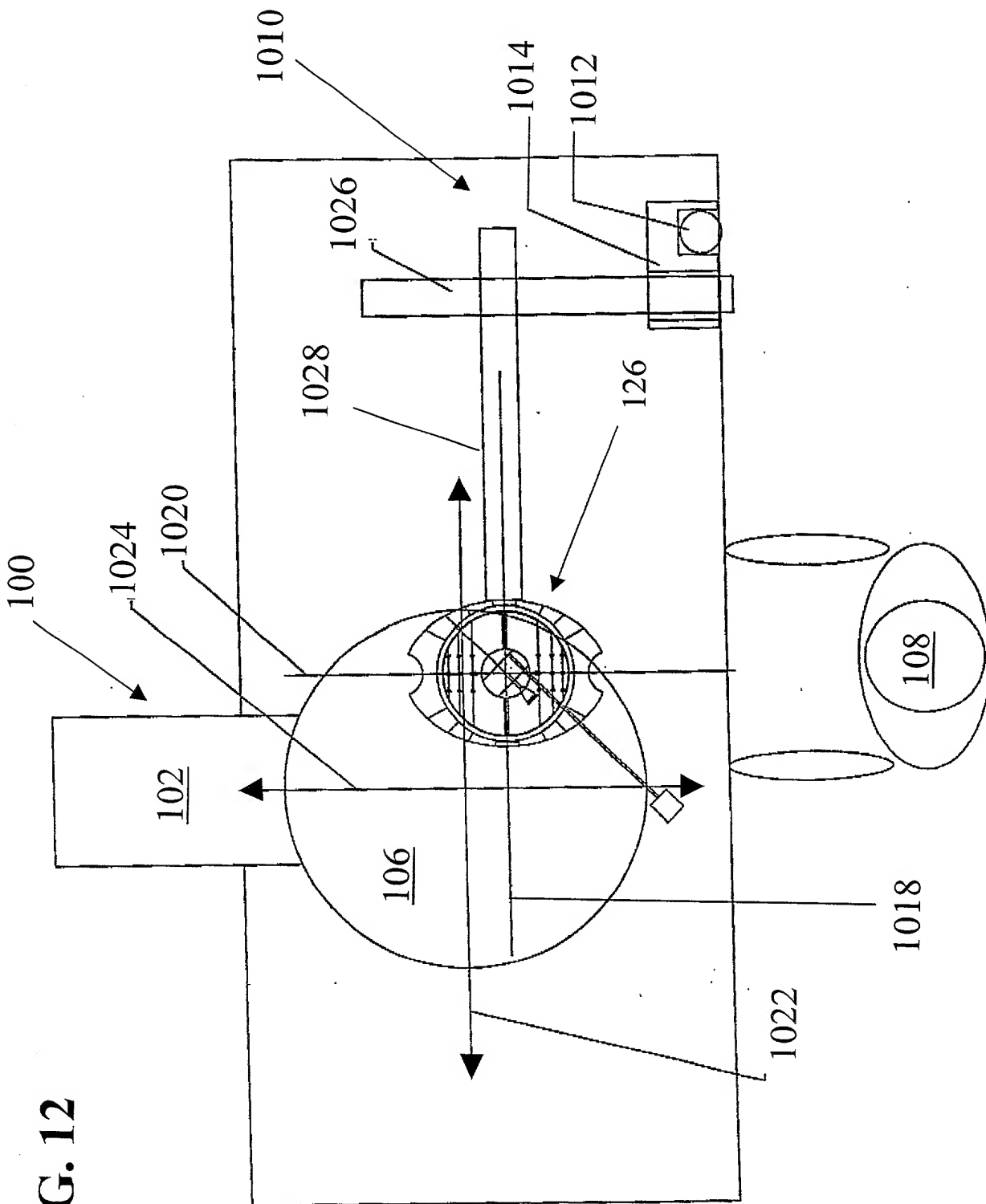
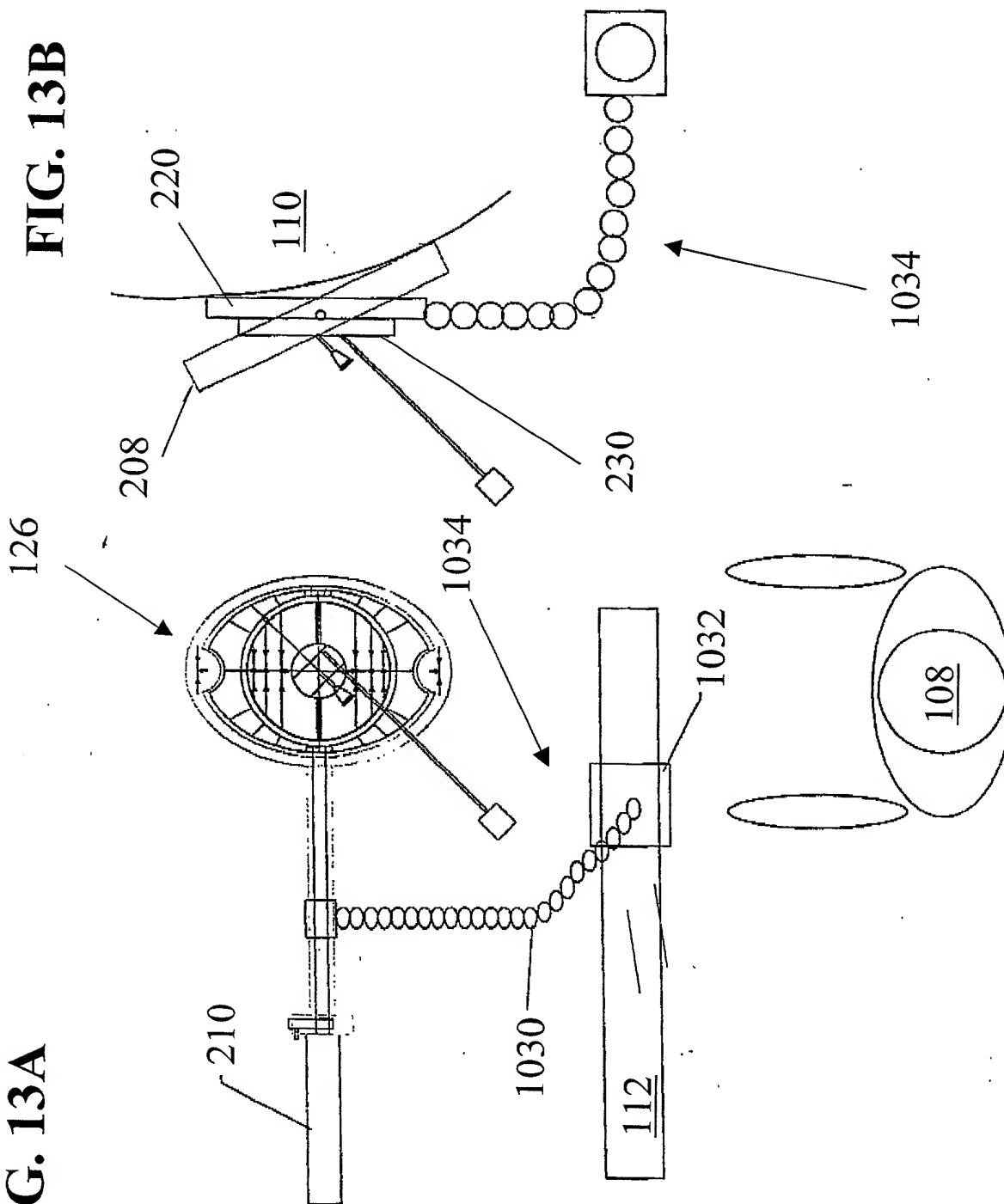


FIG. 13A

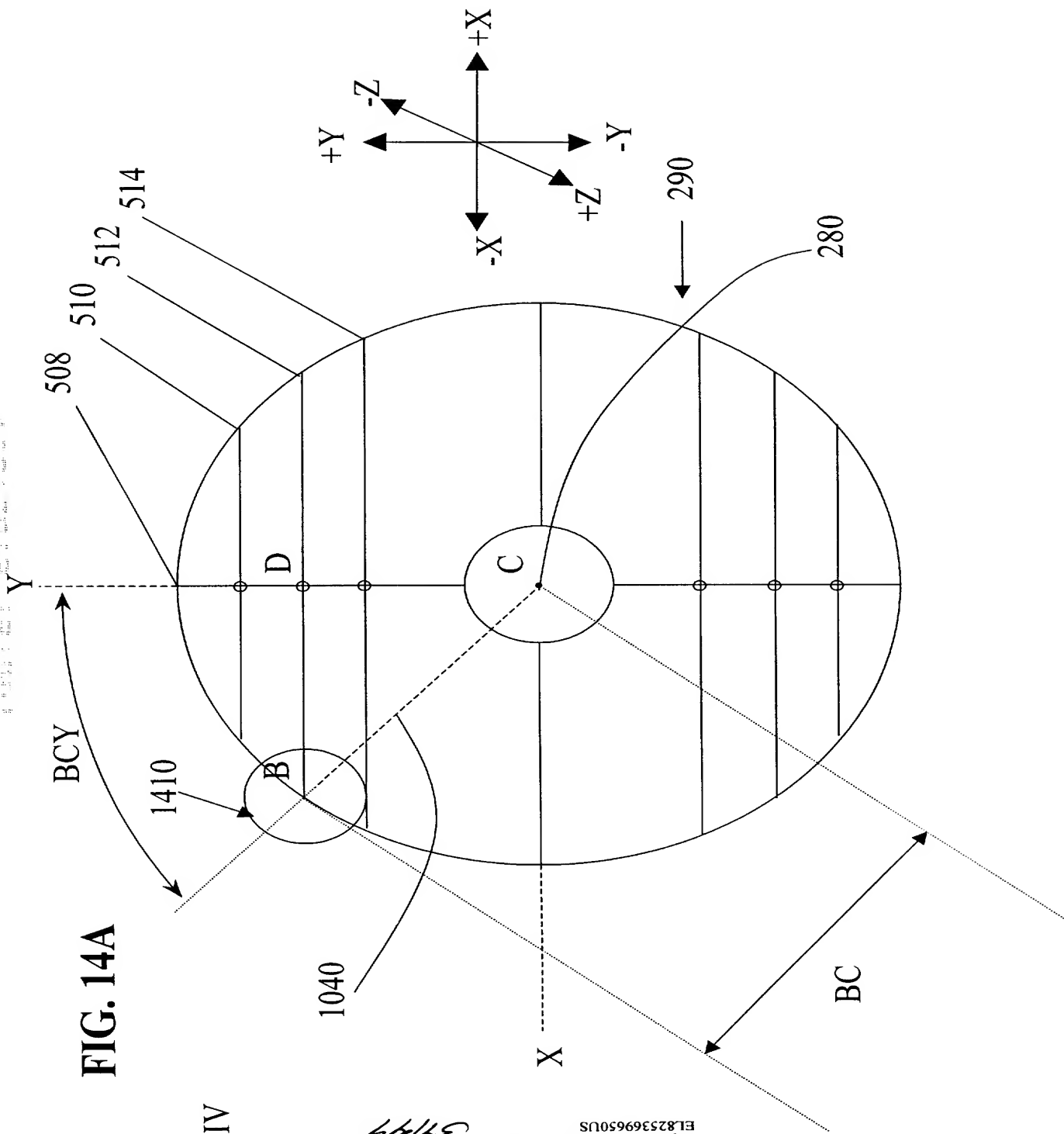
FIG. 13B



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IV

FIG. 14A



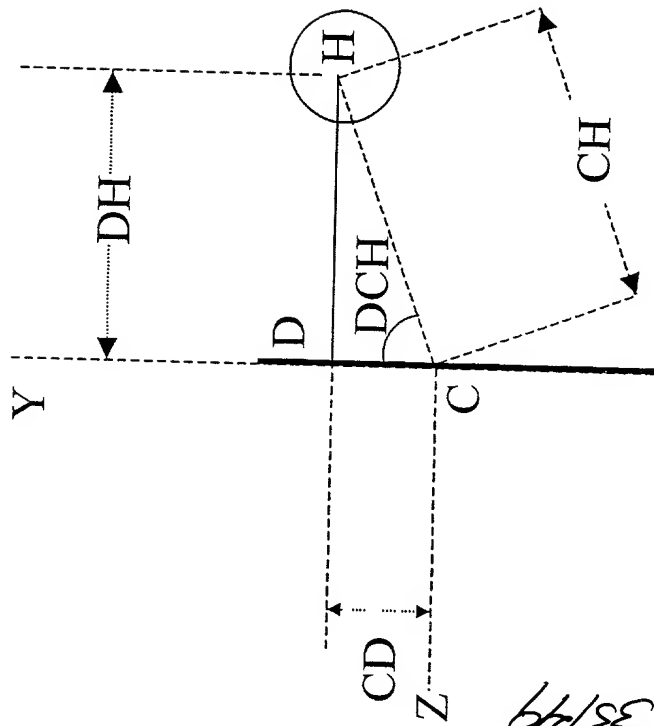


FIG. 14B

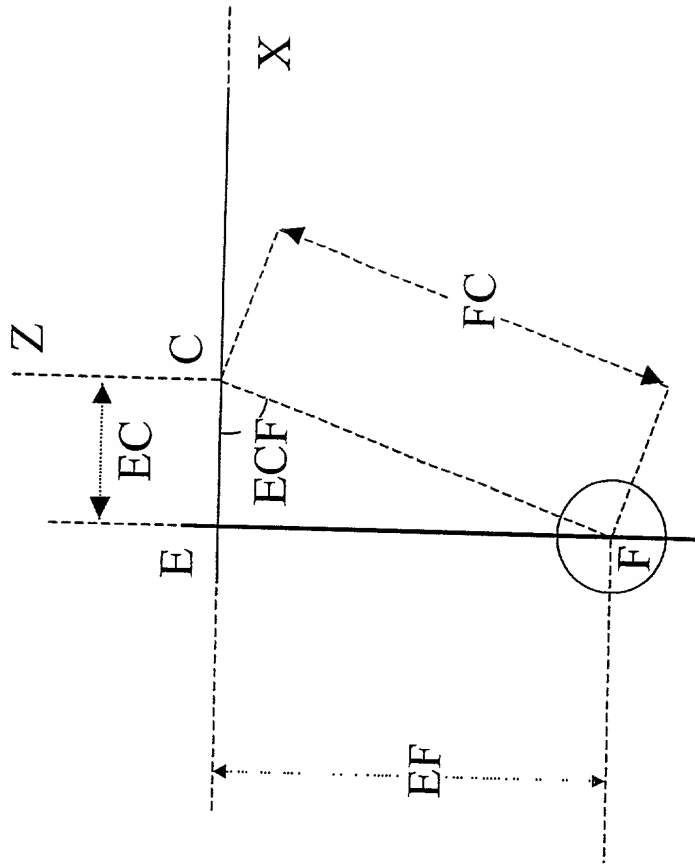


FIG. 14C

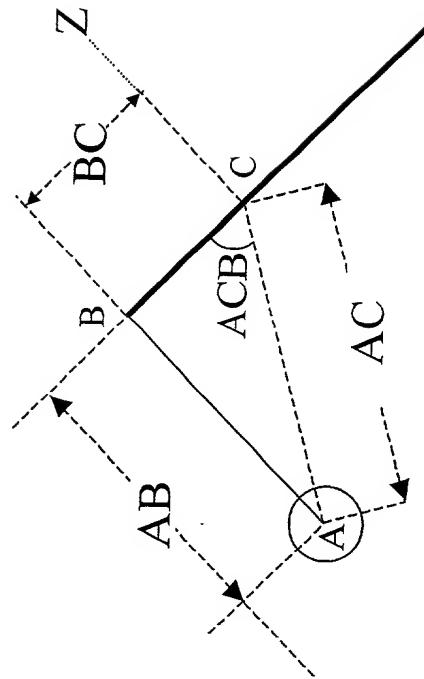


FIG. 14D

FIG. 14E

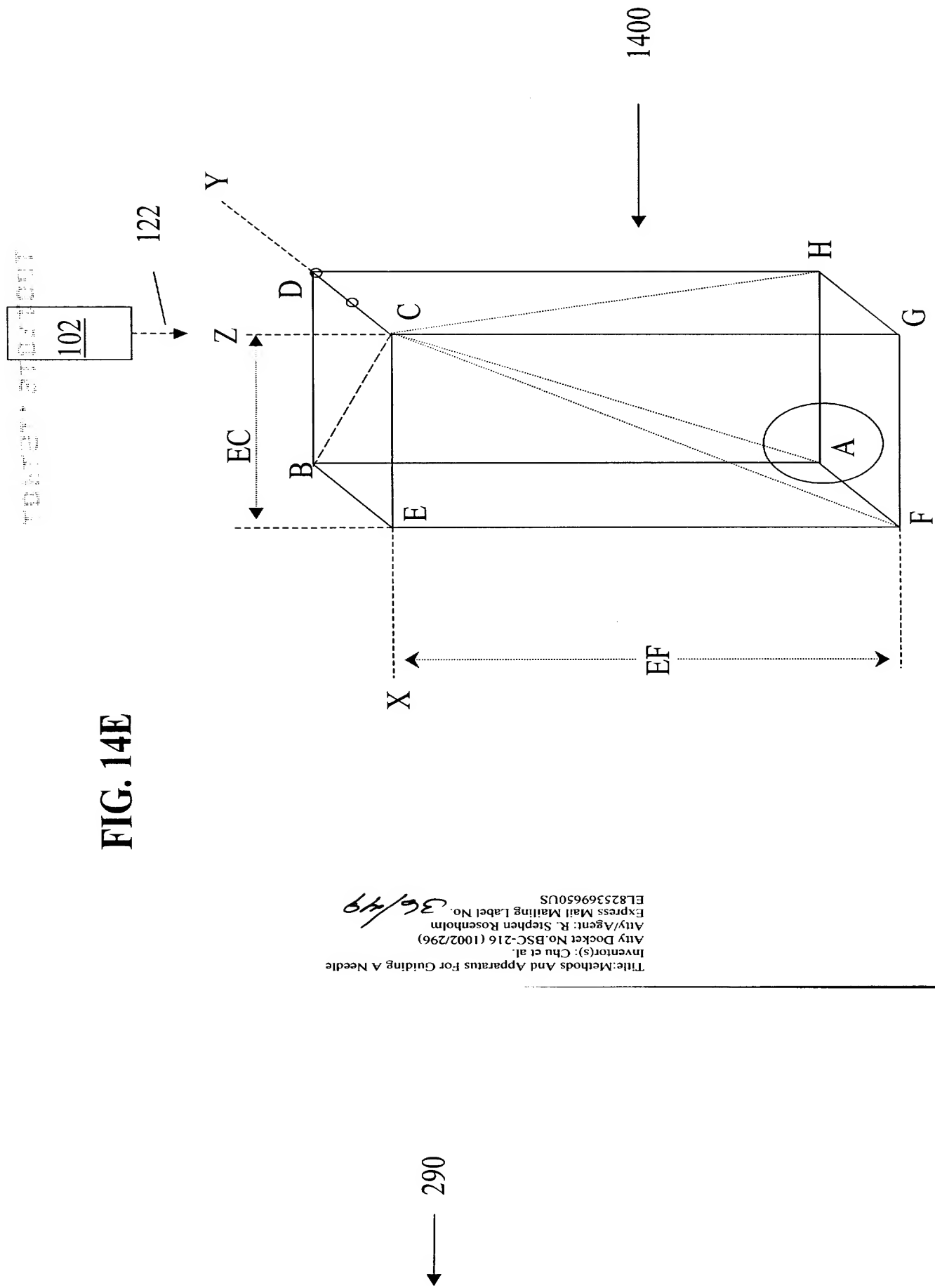
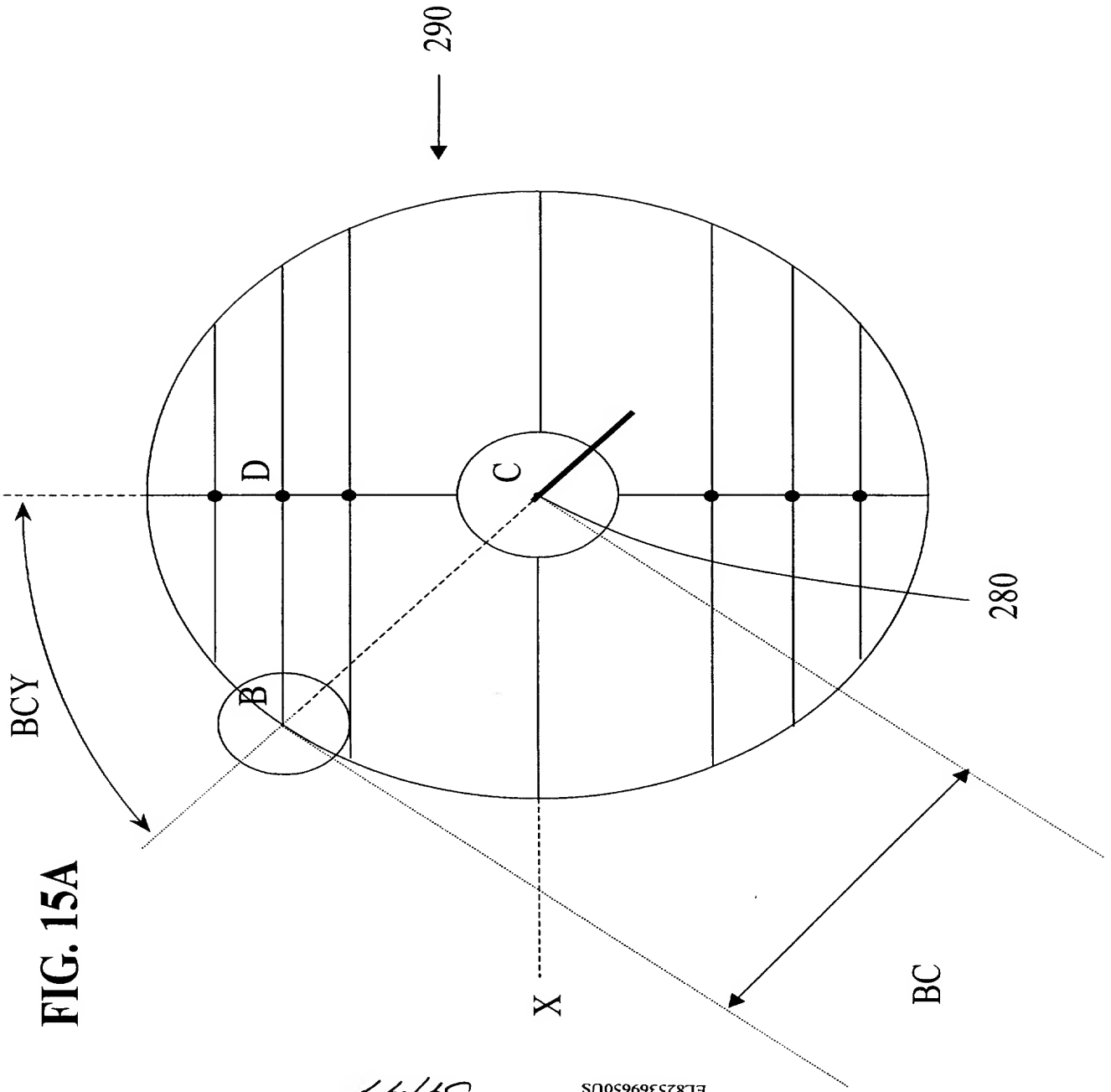
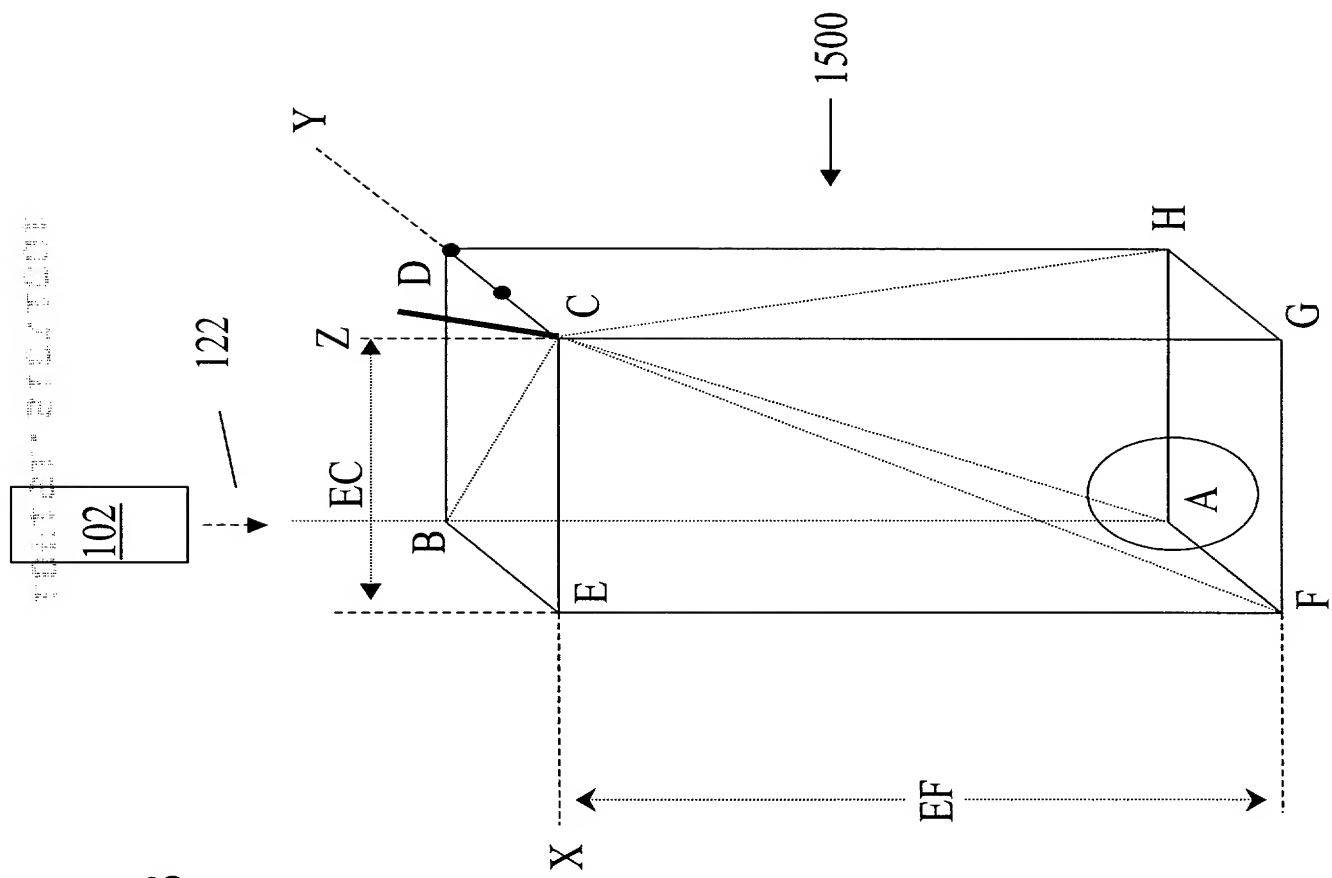


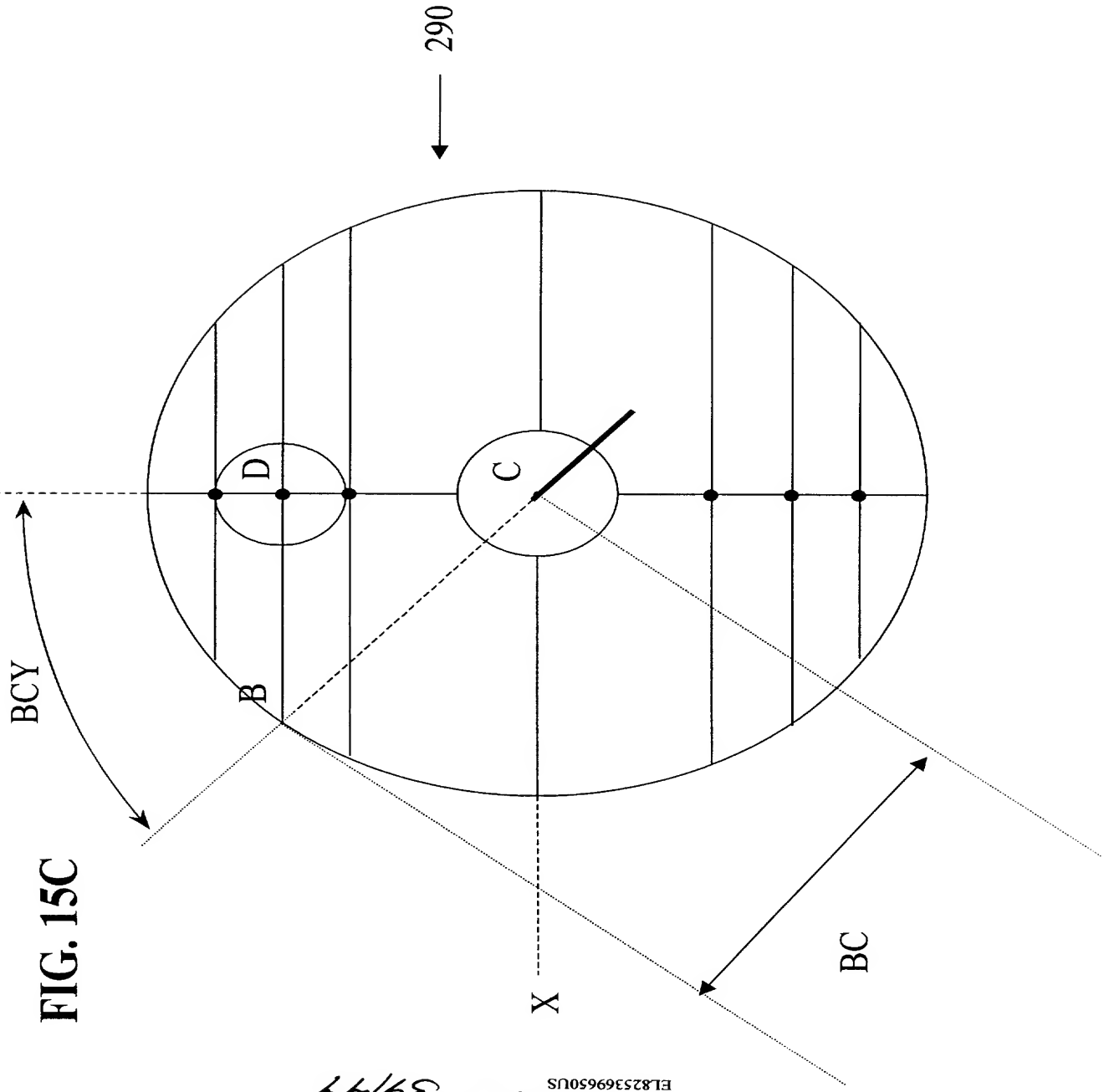
FIG. 15A



Title: Methods And Apparatus For Guiding A Needle
Inventor(s): Chu et al.
Atty Docket No. BSC-216 (1002/296)
Atty/Agent: R. Stephen Rosenholm
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EL825369650US
3d/49

FIG. 15B





Title:Methods And Apparatus For Guiding A Needle
Inventor(s): Chu et al.
Atty/Docket No.BSC-216 (1002/296)
Atty/Agent: R. Stephen Rosenholm
Express Mail Mailing Label No.
ELR253569650US

FIG. 15D

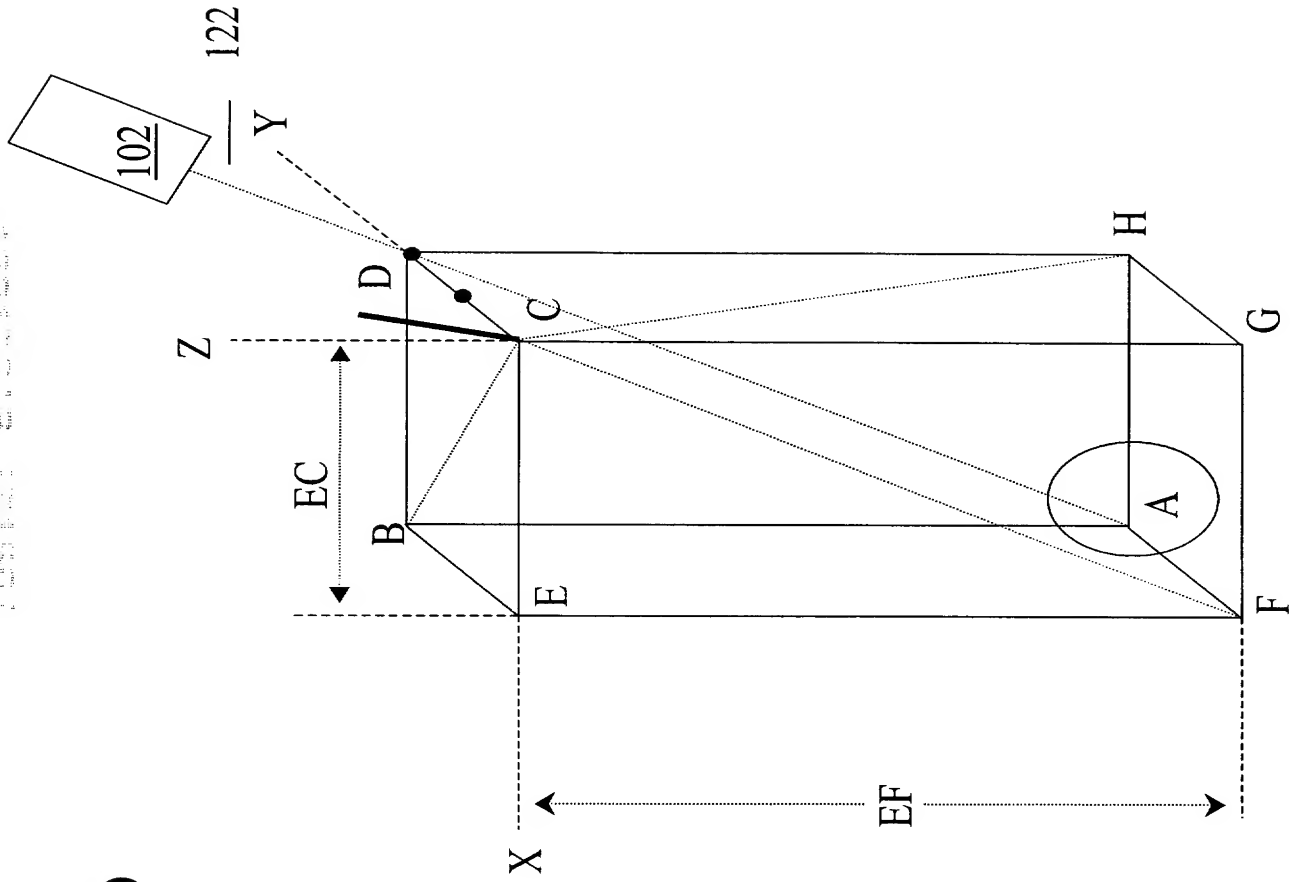


FIG. 15E

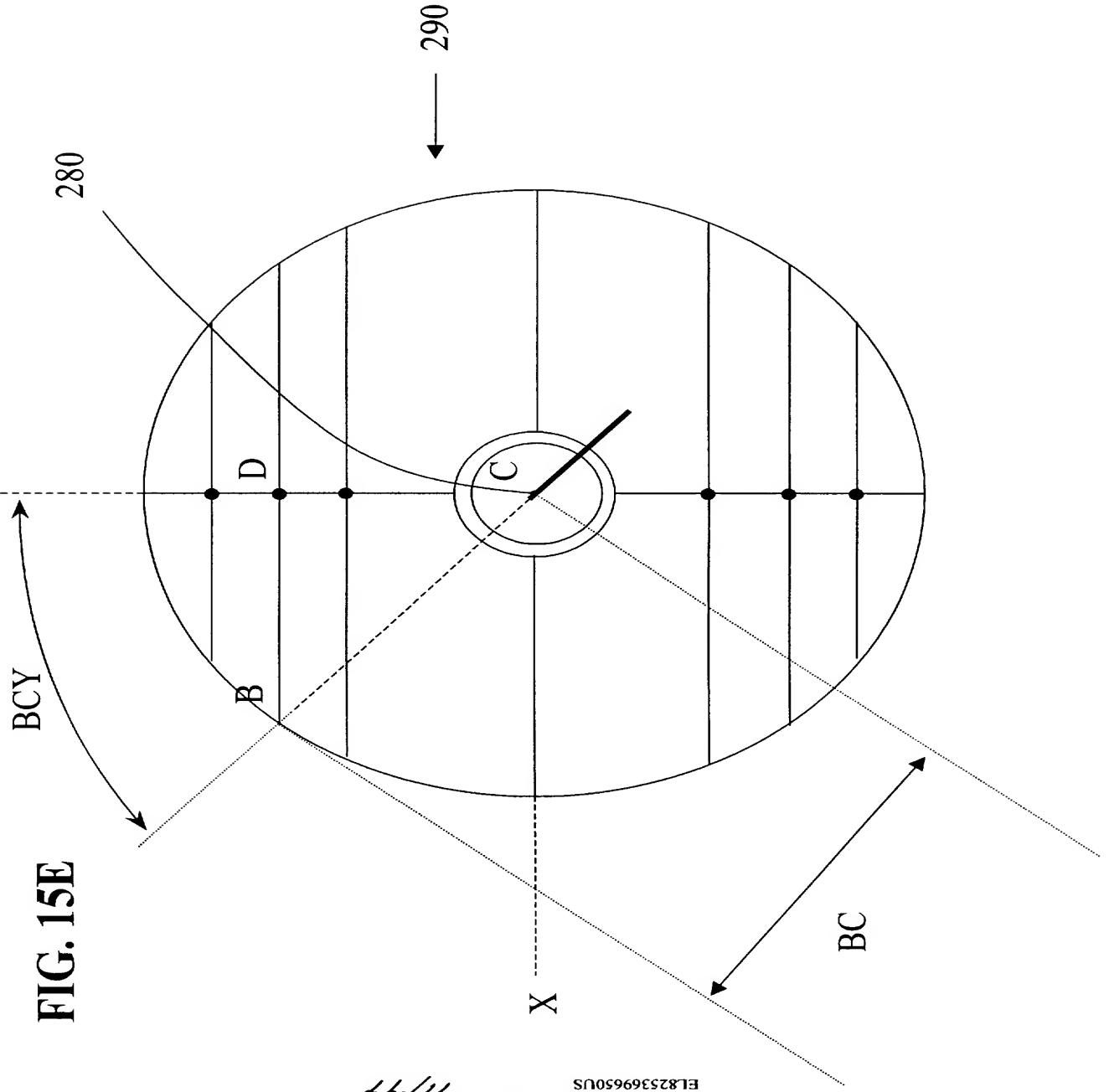
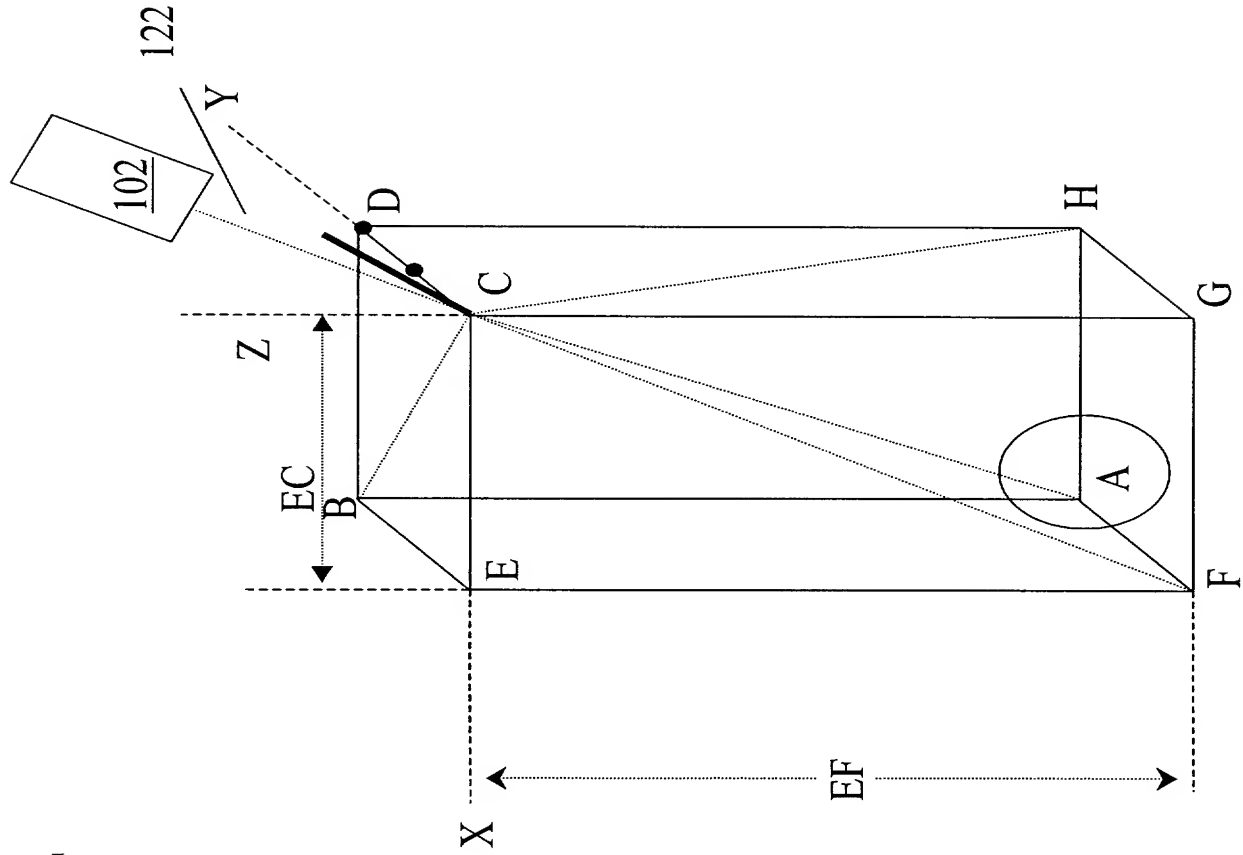
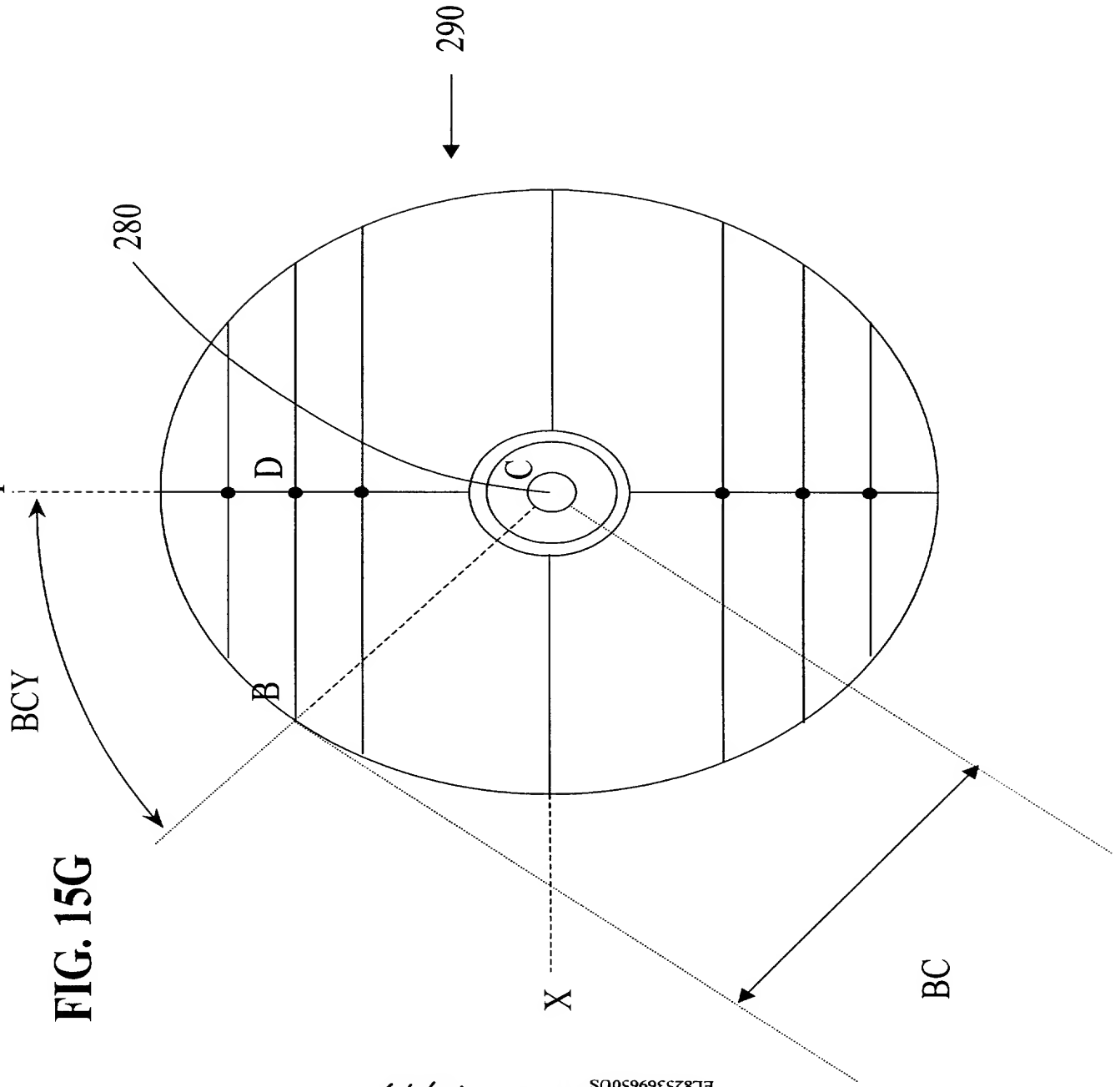
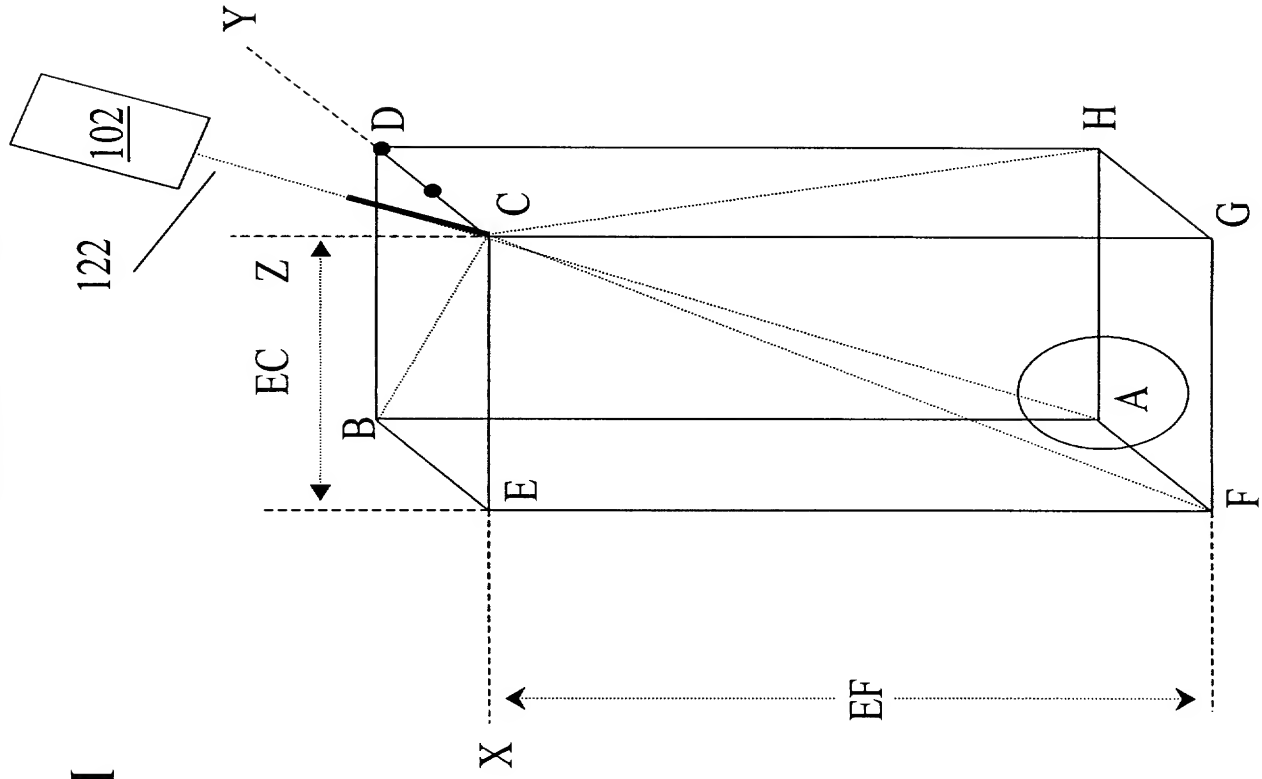


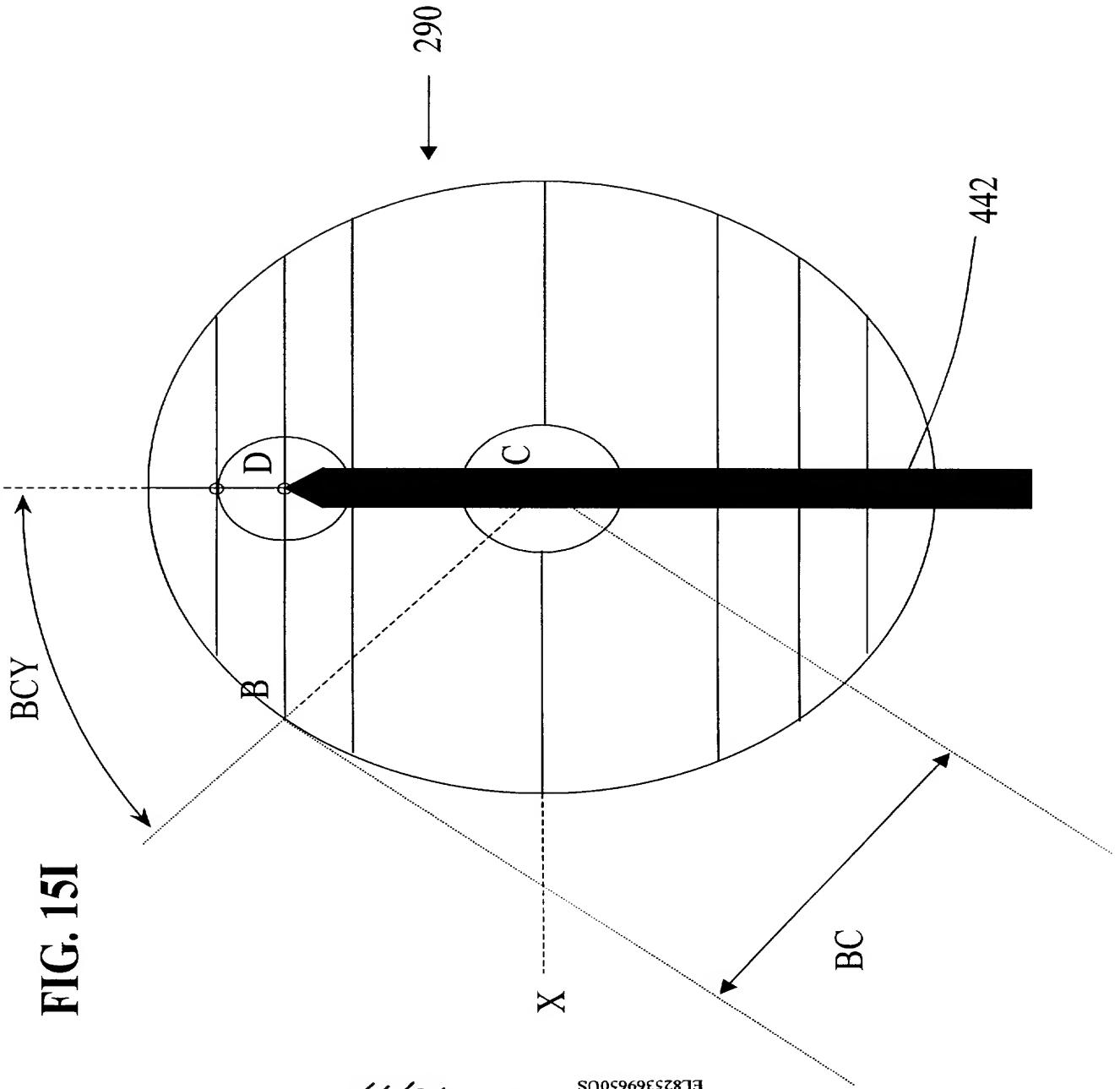
FIG. 15F



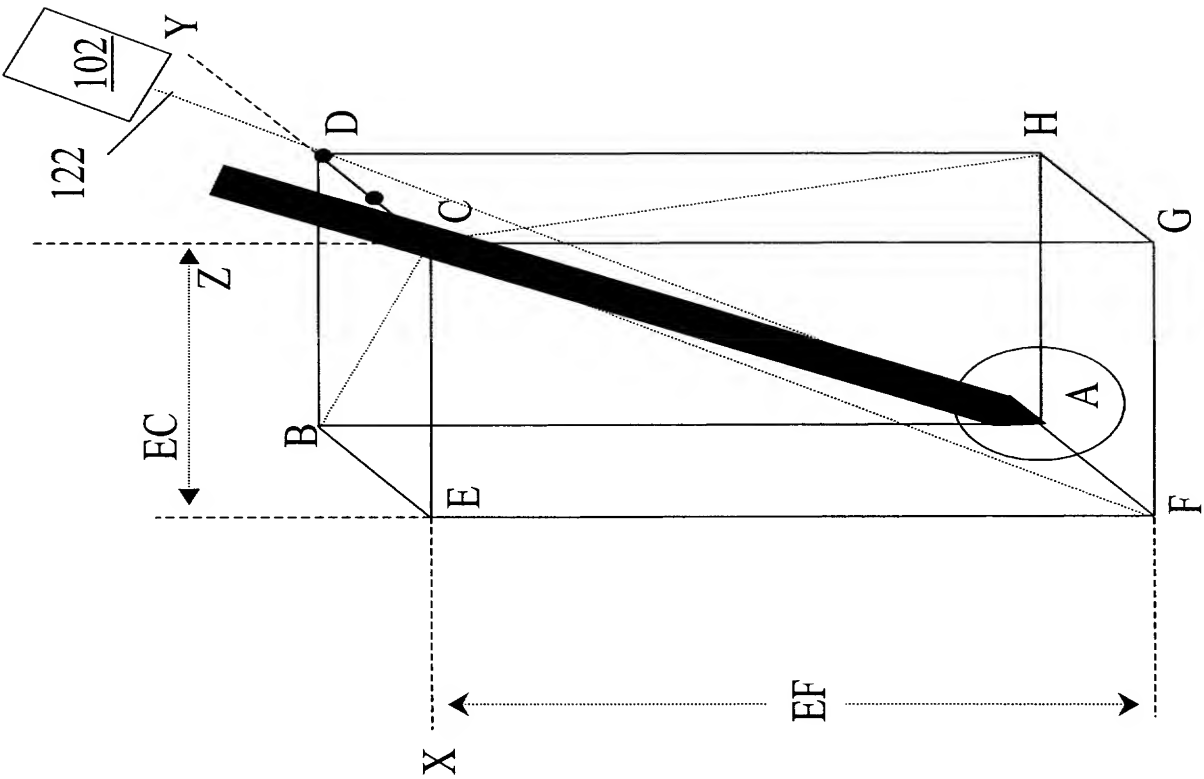


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[illegible]



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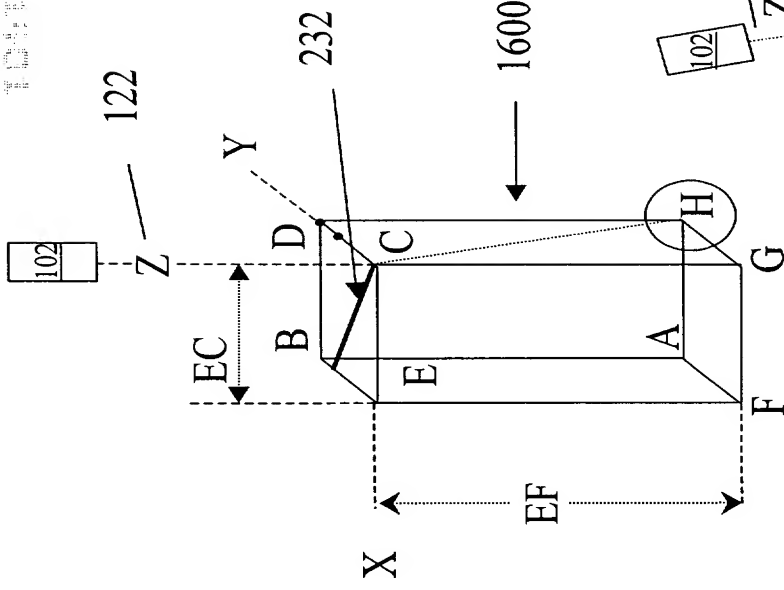


FIG. 16B

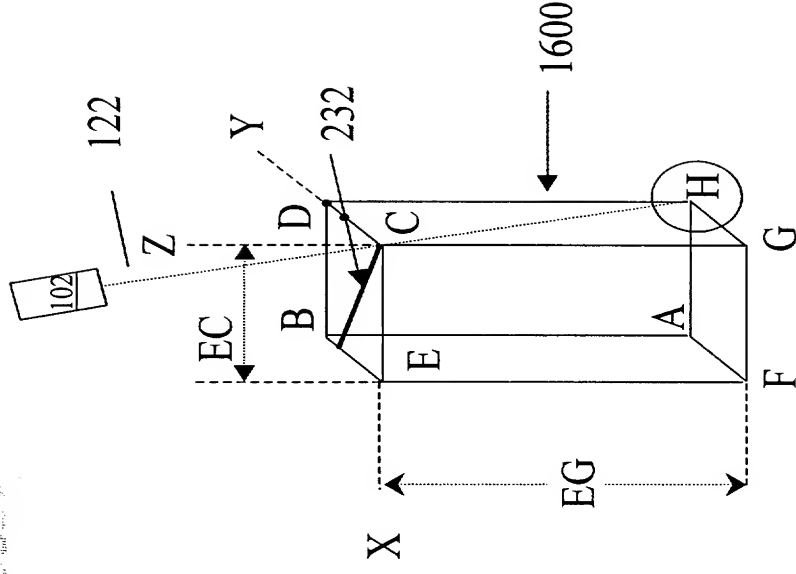


FIG. 16C

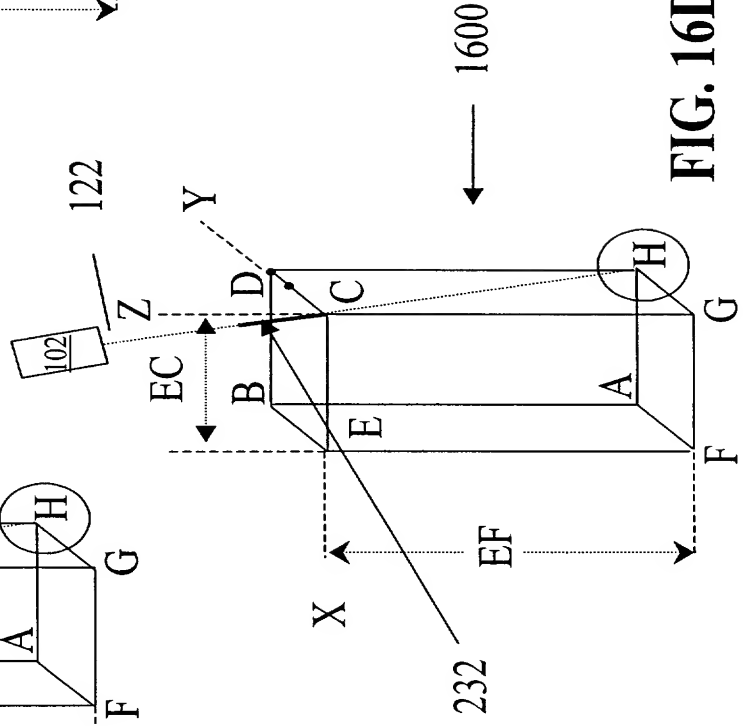


FIG. 16D

FIG. 16E

